



ASCEND

The Complete Tech Career Transformation Program 2026

From Any Background · Any Experience · Java Full Stack + Cloud + AI + Security — 4 Months

■ Fresh Graduate	■ Working Professional	■ Non-IT → IT Switcher	■ Software Engineer Seeking Growth
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Java+ Full Stack	AWS Cloud	DevOps +K8s	AI/ML +GenAI	Data Science	Agentic AI+LLMs	Cyber Security	Cloud Security
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5500+ Placements	16 Weeks	12 Projects	500+ Hours	9 Tracks	■22 LPA Highest Pkg
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ALL 9 TRACKS START FROM DAY 1 — PARALLEL LEARNING MODEL

Expected Salary: ■4 LPA – ■22 LPA | \$65K – \$150K (Global)

■ 9666019191 | ■ www.cloudsoftsol.com | ■ Hyderabad | ■ 2026 Batch
Cloud Soft Solutions — Hyderabad's #1 Tech Training Institute | 5500+ Successful Placements

WHO IS ASCEND FOR?

■ Fresh Graduates	B.Tech/BCA/MCA/BSc or any stream. Zero experience needed. Build 12 projects, get placed.	No prior tech needed · Java from zero · Full placement support till offer
	Engineers, analysts, managers wanting to upskill or move to higher-paying tech/security roles. Weekend batches.	Fast-track for partial knowledge · Add AI/Cloud/DevOps/Security · Target ■5–10 LPA salary hike
■ Non-IT Career Switchers	Finance, HR, Marketing, Healthcare, Teaching entering tech. 1200+ of our 5500+ alumni are career switchers.	No engineering background required · IT fundamentals in Week 1–2 · Real-world industry curriculum
■ Software Engineers	Developers stuck in same role 2+ years wanting AI/ML, Cloud Arch, Security specialization or senior positions.	Skip basics — fast-track advanced · Add AI, LLMs, Security, Cloud Arch · Target lead/architect roles

■ 5500+ Placements — across India's top product companies, unicorns, MNCs & global remote firms. Founded by veterans from Google, Amazon & TCS.

■ 200+ Hiring Partners — direct referrals to companies in Hyderabad, Bangalore, Pune, Chennai & international. Curriculum built from 50,000+ JD analysis.

■ Flexible Batches — Weekday morning, evening & weekend options. Dedicated career team schedules interviews and provides placement support till offer.

9-TRACK PARALLEL MODEL — ALL TRACKS FROM DAY 1

All 9 domains run simultaneously from Week 1 — mirroring how senior engineers work at top companies: writing Java AND deploying to AWS AND securing systems AND using AI every single week. Depth increases each month as foundations compound.

TRACK	MONTH 1 Wks 1–4	MONTH 2 Wks 5–8	MONTH 3 Wks 9–12	MONTH 4 Wks 13–16
■ Java	Core+OOP+Collections	Spring Boot+JPA	Microservices+Cloud	Spring AI+LLM Code
■ Full Stack	HTML/CSS+JS+Spring MVC	React+Spring REST	Spring Cloud+Next.js	Secure SaaS+AI UI
■ AWS	IAM+EC2+S3 Wk1	Lambda+ECS+EKS	SageMaker+Glue	Bedrock+Multi-cloud
■ DevOps	Git+Docker+Linux	K8s+CI/CD+EKS	Terraform+ArgoCD	Full GitOps+LLMOps
■ AI/ML	scikit-learn+GPT-4o Wk1	XGBoost+MLflow+NLP	PyTorch+CV+Transformers	Fine-tuning+VLLM
■ Data Sci	Pandas+EDA+Plotly	Stats+Time Series	PySpark+Airflow+dbt	BigQuery ML
■ Agentic AI	Prompts+LangChain	RAG+Vector DBs	LangGraph+CrewAI	Multi-Agent+MCP
■ Cyber Sec	Linux Sec+OWASP	VAPT+Pentest Labs	SOC+SIEM+MITRE	Full Pentest+Report
■ Cloud Sec	IAM Sec+WAF+GD	DevSecOps+Vault	Zero Trust+CSPM	SOC2+ISO27001+Audit

Daily Schedule — 10 Hours/Day

■ 6–7 AM	DSA — 1 LeetCode problem daily · Easy→Medium progression over 16 weeks
■ 9 AM–12 PM	PRIMARY track — Java/Spring Boot focused deep-dive (rotating each week)
■ 1–3 PM	PARALLEL: AWS + AI/ML — both run every afternoon from Week 1
■ 3–5 PM	Project building — integrate morning+afternoon learnings into deployable code
■ 6–7 PM	Data Science + Cyber Security + Agentic AI — daily 1-hour exercises
■ 8–9 PM	GitHub commit · LinkedIn post · Notes · Next-day prep

<p>Java</p> <ul style="list-style-type: none"> ■ OOP: Inheritance, Polymorphism, Interfaces, Abstract Classes ■ Collections: List, Set, Map, Queue, Stack ■ Java 8+: Streams, Lambda, Optional, Functional Interfaces ■ Exception handling, File I/O, Serialization, Generics 	<p>Full Stack</p> <ul style="list-style-type: none"> ■ HTML5/CSS3/Tailwind + JavaScript ES6+ ■ Spring Boot: REST controllers, auto-config, starters ■ Spring Data JPA + Hibernate: entities, repositories ■ Deploy Spring Boot on EC2 + Nginx + systemd 	<p>AWS</p> <ul style="list-style-type: none"> ■ IAM users, roles, policies, MFA ■ EC2 launch, SSH, security groups ■ S3 buckets, versioning, static host ■ RDS PostgreSQL + CloudWatch + Route53
<p>DevOps</p> <ul style="list-style-type: none"> ■ Linux bash, filesystem, permissions ■ Git branching, PRs, Git Flow ■ Docker Dockerfile + Compose ■ GitHub Actions first CI workflow 	<p>AI/ML</p> <ul style="list-style-type: none"> ■ scikit-learn: LR, RF, Decision Trees ■ Cross-validation, evaluation metrics ■ OpenAI GPT-4o API from Week 1 ■ Prompt engineering: CoT, ReAct, JSON 	<p>Data Sci</p> <ul style="list-style-type: none"> ■ NumPy, Pandas DataFrames, GroupBy ■ Matplotlib, Seaborn, Plotly charts ■ EDA on Kaggle + Streamlit app ■ ydata-profiling automated EDA
<p>Agentic</p> <ul style="list-style-type: none"> ■ LLM tokens, temperature, context ■ LangChain LLMChain, PromptTemplate ■ First RAG prototype with Chroma ■ LangSmith tracing + Q&A; chatbot 	<p>Cyber</p> <ul style="list-style-type: none"> ■ CIA triad, OWASP Top 10 walkthrough ■ Burp Suite install + first intercept ■ Nmap network scanning + Wireshark ■ Secure coding practices Python+Django 	<p>Cloud Sec</p> <ul style="list-style-type: none"> ■ IAM least privilege + SCPs audit ■ Security Groups vs NACLs lab ■ AWS WAF rules + CloudTrail setup ■ GuardDuty + Config compliance rules

Week-by-Week Plan — Month 1

Week 1	Java Core (OOP, Collections, Streams, Generics) · AWS: IAM+EC2+S3 labs · AI: scikit-learn+GPT-4o first API calls+prompts · DATA: Pandas EDA · CYBER: OWASP Top10+Burp Suite · CLOUD SEC: IAM audit+GuardDuty enable · DevOps: Git+GitHub · DSA: 8 Easy
Week 2	Java Advanced (Spring Boot basics, Maven, Lombok, JUnit 5+Mockito) · FULL STACK: HTML/CSS/Tailwind+JS · AWS: S3+CloudWatch+RDS · AI: Random Forest+metrics · DATA: Plotly chart · CYBER: Nmap scanning · CLOUD SEC: WAF rules+CloudTrail · AGENTIC: LangChain · DSA: 6 Easy
Week 3	Spring Boot: REST controllers, JPA entities, repositories, Spring Security · AWS: VPC+security groups · DevOps: Docker+Compose · AI: Decision Tree+SHAP · DATA: Streamlit on EC2 · CYBER: DVWA web app labs · CLOUD SEC: Config rules · AGENTIC: First RAG+Chroma · DSA: 6 Easy
Week 4	PROJECT SPRINT: Build Projects 1 & 2 · AWS EC2+RDS+S3+WAF deploy · GitHub Actions CI · CYBER: OWASP audit on own project · AI: ML recommendations+GPT-4o chatbot · Total LeetCode: 26 Easy

MONTH 1 — PROJECTS

PRJ 01	Secure E-Commerce + AI Recommendations	■ Spring Boot,React,PostgreSQL,scikit-learn,GPT-4o,AWS EC2+RDS+S3+WAF+GuardDuty,Docker,GitHub Actions
Desc	Full-stack e-commerce: Spring Boot REST API + React frontend, PostgreSQL on RDS via Spring Data JPA + Hibernate, scikit-learn recommendation engine, GPT-4o shopping assistant, Spring Security+JWT auth, OWASP hardening, AWS WAF+GuardDuty, GitHub Actions CI.	
Deliverables	✓ Spring Boot REST API ✓ Spring Data JPA+Hibernate ✓ React frontend ✓ AWS EC2+RDS+S3+WAF ✓ ML recommendations ✓ GPT-4o chatbot ✓ OWASP checklist ✓ GuardDuty ✓ CI pipeline	
Roles	Java Full Stack Dev Spring Boot Developer Cloud Engineer AI-enabled Developer	
PRJ 02	Hospital Management System + Security Audit	■ Spring Boot,React,PostgreSQL,JasperReports,Plotly,Streamlit,GPT-4o,AWS,Twilio,Burp Suite
Desc	Complete HMS: Spring Boot multi-role auth (Spring Security+JWT), appointment booking, JasperReports PDF billing, Twilio SMS alerts, GPT-4o symptom checker, Plotly/Streamlit analytics. PLUS full OWASP security audit and Burp Suite pentest findings with remediation.	
Deliverables	✓ Spring Security multi-role auth ✓ JasperReports PDF ✓ Twilio SMS ✓ Plotly dashboard ✓ GPT-4o chatbot ✓ VAPT report ✓ Burp Suite findings ✓ AWS deploy	
Roles	Java Full Stack Dev Healthcare Tech Spring Boot Developer AI-enabled Developer	

<p>Java</p> <ul style="list-style-type: none"> Spring Security: JWT, OAuth2, role-based auth Maven + Gradle: build, dependency management Design Patterns: Builder, Factory, Singleton, Strategy Lombok, MapStruct, Bean Validation annotations 	<p>Full Stack</p> <ul style="list-style-type: none"> Spring REST APIs: @RestController, ResponseEntity, DTOs Spring Batch + Async @Scheduled background jobs React Redux Toolkit + React Query + Axios WebSockets with Spring WebSocket + STOMP 	<p>AWS</p> <ul style="list-style-type: none"> EC2 ASG + ALB load balancing Lambda triggers, layers, concurrency ECS Fargate + ECR containers SQS/SNS + ElastiCache Redis
<p>DevOps</p> <ul style="list-style-type: none"> K8s: pods, deployments, ingress, HPA Helm charts + EKS cluster setup GitHub Actions full CI pipeline SonarQube + Trivy security gates 	<p>AI/ML</p> <ul style="list-style-type: none"> XGBoost, LightGBM, CatBoost+Optuna SMOTE imbalanced datasets MLflow experiment tracking+registry FastAPI model serving endpoint 	<p>Data Sci</p> <ul style="list-style-type: none"> Statistics: A/B tests, hypothesis testing Time series: ARIMA + Prophet dbt SQL transformations + BigQuery Power BI / Tableau dashboards
<p>Agentic</p> <ul style="list-style-type: none"> LangChain LCEL + Memory types Vector DBs: Pinecone, Qdrant, pgvector Hybrid search BM25+dense+RRF RAGAS RAG evaluation framework 	<p>Cyber</p> <ul style="list-style-type: none"> Nessus VAPT + OpenVAS scanning Burp Suite: SQLi, XSS, SSRF labs Metasploit exploitation basics Professional pentest report writing 	<p>Cloud Sec</p> <ul style="list-style-type: none"> DevSecOps: SAST+DAST+SCA in CI HashiCorp Vault secrets management OWASP ZAP automated security tests AWS Security Hub + Inspector

Week-by-Week Plan — Month 2

Week 5	PRIMARY: Spring REST APIs+JWT+Spring Batch+WebSockets · AWS: Lambda+API Gateway+SQS · DevOps: K8s basics+minikube · AI: XGBoost+MLflow · DATA: Stats+A/B+dbt · CYBER: Nessus VAPT+DVWA SQLi · CLOUD SEC: DevSecOps Snyk+Bandit in CI · AGENTIC: LangChain LCEL+Pinecone · DSA: 8 Easy+4 Medium
Week 6	PRIMARY: React Redux+React Query+hooks (same) + Spring Security OAuth2 · AWS: ASG+ALB+CloudFront+ElastiCache · DevOps: Helm+EKS+CI(Trivy+SonarQube+Docker+ECR) · AI: Hugging Face BERT · DATA: ARIMA+Prophet · CYBER: Burp Suite XSS+SSRF · CLOUD SEC: HashiCorp Vault+OWASP ZAP DAST · AGENTIC: Hybrid RAG+RAGAS · DSA: 5 Easy+6 Medium
Week 7	PRIMARY: Spring Boot performance: caching, connection pools, query optimization · AWS: ECS Fargate+Secrets Manager · DevOps: Prometheus+Grafana on K8s · AI: FastAPI model serving · DATA: BigQuery+dbt+Tableau · CYBER: Metasploit exploitation lab · CLOUD SEC: Security Hub+Inspector · AGENTIC: LlamaIndex+advanced RAG · DSA: 4 Easy+5 Medium
Week 8	PROJECT SPRINT: Build Projects 3, 4 & 5 · Full DevSecOps CI (SAST+DAST+Trivy) · Pentest report for project · MLflow endpoint · LangChain RAG chatbot integrated · LeetCode: 60 Easy+22 Medium

MONTH 2 — PROJECTS

PRJ 03	Secure DevOps Pipeline — DevSecOps on EKS	■ GitHub Actions, Docker, ECR, EKS, Helm, SonarQube, Trivy, OWASP ZAP, Snyk, Prometheus, Grafana, Terraform, Maven
Desc	DevSecOps pipeline for Spring Boot app: GitHub Actions → Maven build+JUnit tests+SpotBugs SAST+SonarQube+Snyk+Trivy+OWASP ZAP → Docker → ECR → Helm/EKS → Prometheus+Grafana. Security gate blocks on critical vulnerabilities. Full pentest report included.	
Deliverables	✓ Maven+GitHub Actions pipeline ✓ SpotBugs+SonarQube SAST ✓ OWASP ZAP DAST ✓ EKS+Helm deploy ✓ Prometheus+Grafana ✓ Security report ✓ Terraform IaC	
Roles	DevSecOps Engineer Platform Engineer Cloud Security Engineer SRE	
PRJ 04	Serverless API + Secure RAG Chatbot on AWS	■ Lambda, API Gateway, DynamoDB, Athena, Pinecone, LangChain, GPT-4o, Cognito+MFA, WAF, Security Hub, Terraform
Desc	Serverless URL shortener + analytics RAG chatbot. SECURITY: WAF on API Gateway, Cognito+MFA, Security Hub monitors findings, GuardDuty active, CloudTrail logs every call. Full Terraform IaC.	
Deliverables	✓ Lambda+API Gateway+WAF ✓ Pinecone RAG ✓ Cognito+MFA ✓ Security Hub ✓ GuardDuty ✓ Terraform IaC ✓ Cost+security report	
Roles	Cloud Engineer Cloud Security Engineer Serverless Developer AI Engineer	
PRJ 05	Fraud Detection ML + MLOps + Vault Secrets	■ XGBoost, SMOTE, SHAP, MLflow, Spring Boot REST, Evidently, Airflow, SageMaker, ECS, GitHub Actions, HashiCorp Vault
Desc	Credit card fraud detection (AUC-ROC 0.98+). XGBoost+SMOTE, SHAP explainability, MLflow registry. Spring Boot REST API wraps model with Vault secret management + Spring Security. Evidently drift monitoring, Airflow retraining DAG, SageMaker endpoint, DevSecOps CI pipeline.	
Deliverables	✓ XGBoost+20 MLflow runs ✓ SHAP report ✓ Spring Boot REST API+HashiCorp Vault ✓ Evidently drift ✓ Airflow DAG ✓ SageMaker endpoint	

MONTH 3 ALL 9 TRACKS — Advanced Engineering PyTorch+CV+NLP · SageMaker · Terraform+ArgoCD
· PySpark · LangGraph · SOC+SIEM · Zero Trust Weeks 9–12 | 2026

Java <ul style="list-style-type: none"> Spring Cloud: Eureka, Config Server, API Gateway Spring WebFlux: reactive programming, Mono/Flux Feign Client, Ribbon, Circuit Breaker (Resilience4j) JUnit 5, Mockito, TestContainers, MockMvc 	Full Stack <ul style="list-style-type: none"> Microservices with Spring Cloud: service discovery GraphQL with Netflix DGS framework Next.js SSR/SSG/ISR + App Router Stripe integration via Spring Boot + webhooks 	AWS <ul style="list-style-type: none"> EKS managed nodes + IRSA roles SageMaker training + pipelines AWS Glue ETL + Kinesis Streams OpenSearch + Cost Optimizer
DevOps <ul style="list-style-type: none"> ArgoCD GitOps continuous delivery Terraform modules + remote state Istio service mesh + mTLS ELK Stack + Jaeger + OpenTelemetry 	AI/ML <ul style="list-style-type: none"> PyTorch CNN + ResNet50 transfer learning YOLOv8 custom object detection BERT fine-tuning + sentence-transformers Grad-CAM explainability + ONNX export 	Data Sci <ul style="list-style-type: none"> PySpark DataFrames + MLlib Apache Airflow DAGs + sensors dbt models + Delta Lake Kafka + Flink stream processing
Agentic <ul style="list-style-type: none"> LangGraph stateful graphs + cycles HITL interrupts + checkpointing CrewAI role-based multi-agent Agentic RAG — agent decides retrieval 	Cyber <ul style="list-style-type: none"> Splunk SIEM + log dashboards MITRE ATT&CK; framework mapping Incident response simulation Memory forensics + malware analysis 	Cloud Sec <ul style="list-style-type: none"> Zero Trust Architecture + Okta SSO CSPM: Prisma Cloud / Wiz trial KMS encryption + ACM + TLS AWS Audit Manager compliance checks

Week-by-Week Plan — Month 3

Week 9	PRIMARY: PyTorch CNN+transfer learning (Python ML stays parallel) · AWS: SageMaker training+model registry · DevOps: ArgoCD+Terraform modules · DATA: PySpark+Databricks+Airflow · CYBER: Splunk SIEM setup+log dashboards · CLOUD SEC: Zero Trust lab+Okta SSO · AGENTIC: LangGraph stateful workflow · DSA: 7 Medium+1 Hard
Week 10	PRIMARY: BERT fine-tuning + Spring AI integration · AWS: Glue+Kinesis+OpenSearch · DevOps: Istio+ELK+Jaeger · DATA: dbt+Delta Lake · CYBER: MITRE ATT&CK;+IR simulation · CLOUD SEC: Prisma CSPM+KMS encryption · AGENTIC: CrewAI multi-agent+HITL · DSA: 5 Medium+2 Hard
Week 11	PRIMARY: YOLOv8+ONNX+TorchServe + Spring Boot REST wrapper · AWS: multi-region+cost audit · DevOps: LitmusChaos+Falco · DATA: Kafka streaming+Feast · CYBER: Memory forensics+malware analysis+blue team · CLOUD SEC: Audit Manager+Wiz CNAPP demo · AGENTIC: Agentic RAG+tool use · DSA: System design (Uber, Twitter)
Week 12	PROJECT SPRINT: Build Projects 6 & 7 · SageMaker model serving · ArgoCD GitOps deploy · LangGraph analyst agent · SIEM monitoring integrated · Cloud security validated · LeetCode: 80 Easy+36 Medium+3 Hard

MONTH 3 — PROJECTS

PRJ 06	Medical AI — HIPAA-aware Platform with SIEM	■ PyTorch, ResNet50, YOLOv8, FastAPI, React, SageMaker, Airflow, MLflow, Splunk SIEM, WAF, KMS, ArgoCD, EKS
Desc	Chest X-ray multi-disease classifier (14 classes) with YOLOv8 lesion detection and Grad-CAM. SECURITY: KMS encryption, WAF API protection, Splunk SIEM anomaly alerts, IAM least-privilege, VPC private subnets. SageMaker pipeline, MLflow registry, Airflow DAG, ArgoCD EKS deploy.	
Deliverables	✓ PyTorch+YOLOv8 ✓ SageMaker pipeline ✓ KMS+WAF+Splunk SIEM ✓ HIPAA checklist ✓ Grad-CAM UI ✓ Airflow DAG ✓ ArgoCD deploy	
Roles	ML Engineer Healthcare AI Developer Cloud Security Engineer MLOps Engineer	
PRJ 07	Retail Analytics + LangGraph Agent + SOC Monitoring	■ PySpark, Kafka, Airflow, dbt, BigQuery, Streamlit, LangGraph, GPT-4o, Elastic SIEM, GuardDuty, Wiz CSPM
Desc	End-to-end retail analytics: PySpark ETL→Delta Lake→dbt→BigQuery→Streamlit dashboard (revenue, cohort, forecast Prophet+LSTM). LangGraph agent generates weekly reports. Elastic SIEM monitors pipeline, GuardDuty alerts on anomalous data access, Wiz CSPM cloud posture.	
Deliverables	✓ PySpark+Kafka pipeline ✓ dbt+BigQuery ✓ Streamlit dashboard ✓ LangGraph agent ✓ Elastic SIEM ✓ GuardDuty ✓ Wiz CSPM report	
Roles	Data Engineer Analytics Engineer Security Analyst AI Developer	

MONTH 4 ALL 9 TRACKS — Production + Capstone Fine-tuning · Multi-Agent · Multi-cloud · GitOps · Full Pentest · SOC2/ISO27001 + Capstone Weeks 13–16 | 2026

Java <ul style="list-style-type: none"> Spring AI: LLM integration in Java apps Spring Boot SSE streaming for LLM output Java agent loops with CompletableFuture + virtual threads Security code review: OWASP Java cheat sheet, SAST 	Full Stack <ul style="list-style-type: none"> Multi-tenant Spring Boot SaaS with schema isolation Stripe billing via Spring Boot + webhook handlers SSE streaming for real-time AI token output to React CSP headers, CORS config + OWASP Java secure coding 	AWS+Multi <ul style="list-style-type: none"> AWS Bedrock: Claude+Llama+Titan Bedrock Knowledge Bases managed RAG GCP Vertex AI + Azure OpenAI FinOps + Control Tower + SCPs
DevOps <ul style="list-style-type: none"> ArgoCD ApplicationSets + GitOps Karpenter node autoscaling on EKS Falco runtime K8s security LLM CI/CD: prompt regression tests 	AI/ML <ul style="list-style-type: none"> QLoRA fine-tuning + Unsloth (2x) HuggingFace TRL: SFTTrainer+DPO VLLM high-throughput inference server Guardrails: NeMo + Llama Guard 3 	Data Sci <ul style="list-style-type: none"> BigQuery ML: train+serve in SQL Vertex AI end-to-end ML pipelines LLM pipelines: entity extraction at scale Privacy-preserving ML: differential privacy
Agentic <ul style="list-style-type: none"> Production agent: error, retry, fallback LangFuse LLM cost+quality observability Portkey: routing, caching, budgets Custom MCP server: expose DB+APIs 	Cyber <ul style="list-style-type: none"> Full pentest: scope→recon→exploit→report API + cloud misconfiguration pentesting Bug bounty: HackerOne/Bugcrowd workflow CompTIA Security+ / CEH exam prep 	Cloud Sec <ul style="list-style-type: none"> SOC2 Type II evidence collection ISO27001 ISMS documentation PCI-DSS cloud compliance mapping Cloud IR: incident response playbooks

Week-by-Week Plan — Month 4

Week 13	PRIMARY: Spring AI fine-tuned model integration, VLLM serving via REST, Guardrails · AWS: Bedrock RAG+GCP Vertex · DevOps: Karpenter+Falco+LLM CI · DATA: BigQuery ML+LLM pipelines · CYBER: API pentesting+cloud misconfig exploits · CLOUD SEC: SOC2 evidence+GDPR mapping · AGENTIC: Production LangGraph+LangFuse · DSA: Mock OA x2
Week 14	PRIMARY: Spring AI MCP + voice agent + Java secure coding review · FULL STACK: Stripe+SSE+Next.js+CSP headers · AWS: Azure OpenAI+multi-cloud security · DevOps: ApplicationSets+Falco+SBOM · CYBER: Full pentest on capstone system+report · CLOUD SEC: ISO27001 mapping+IR playbooks · AGENTIC: CrewAI+Portkey+secure agents · DSA: Mock OA x2
Week 15	CAPSTONE Sprint Wk1: Architect + build Project 12 · Terraform all infra · Full DevSecOps CI/CD · Fine-tuned model on VLLM · RAG chatbot+Pinecone · Multi-agent backend · WAF+SIEM+CSPM+SOC2 controls
Week 16	CAPSTONE Sprint Wk2+PORTFOLIO: Polish+deploy all 12 projects · READMEs · Loom demos · GitHub+LinkedIn+Resume update · 5 mock technical+3 system design+2 HR interviews · Red team vs Blue team final exercise · LeetCode: 90 Easy+45 Medium+5 Hard DONE

MONTH 4 — PROJECTS

PRJ 08	Autonomous Security-Aware Software Agent	■ LangGraph, CrewAI, Claude Sonnet 4, GPT-4o, GitHub API, JUnit+Maven, VLLM, SpotBugs SAST, LangFuse, EKS, Falco
Desc	Multi-agent system resolving GitHub Java issues. LangGraph: Read→RAG codebase→Plan→Generate Java code→Maven+JUnit→SpotBugs SAST (blocks HIGH severity)→Code Review Agent→PR. Falco runtime security. VLLM fine-tuned model. Evaluated on 25 real issues (60%+ success).	
Deliverables	✓ LangGraph workflow ✓ CrewAI agents ✓ GitHub API ✓ Maven+JUnit runner ✓ SpotBugs SAST gate ✓ VLLM ✓ Falco alerts ✓ LangFuse traces ✓ EKS+ArgoCD ✓ 25-issue evaluation	
Roles	AI Engineer DevSecOps Engineer Agentic AI Developer Security Automation Engineer	
PRJ 09	Enterprise Secure RAG — Multi-tenant Knowledge Assistant	■ LangChain, GPT-4o, Pinecone, FastAPI SSE, React, Bedrock, RAGAS, LangSmith, Cognito+MFA, WAF, KMS, ECS, Terraform
Desc	Multi-tenant RAG chatbot. Hybrid search (Pinecone+BM25+RRF)+Cohere Rerank. GPT-4o with Bedrock fallback. SSE streaming. SECURITY: tenant namespace isolation, Cognito+MFA, WAF+KMS, CloudTrail, Security Hub. Redis cache 60% cost saving. RAGAS evaluation (faithfulness >0.85).	
Deliverables	✓ Hybrid RAG+reranking ✓ Cognito+MFA+WAF+KMS ✓ Tenant isolation ✓ RAGAS benchmark ✓ LangSmith traces ✓ Terraform ECS ✓ Security architecture doc	
Roles	AI Engineer Cloud Security Engineer LLM Engineer Full Stack AI Developer	
PRJ 10	Professional Cloud Penetration Testing Report	■ Kali Linux, Metasploit, Burp Suite, Nmap, Nessus, Pacu, ScoutSuite, CloudSploit, OWASP ZAP, Splunk
Desc	Pentest of simulated AWS environment: web apps, APIs, EC2, S3 misconfigs, IAM flaws, Lambda. Tools: Pacu (AWS exploitation), ScoutSuite, Burp Suite, Metasploit. Deliverables: executive summary + technical findings + risk ratings + remediation.	
Deliverables	✓ Scoping document ✓ Reconnaissance report ✓ Exploitation evidence ✓ Cloud misconfiguration findings ✓ Executive summary ✓ Technical report ✓ Remediation roadmap	
Roles	Penetration Tester Cloud Security Engineer Security Analyst VAPT Specialist	

PRJ 11	Cloud Compliance & Security Architecture	<ul style="list-style-type: none"> Security Hub, Audit Manager, Prisma Cloud, Terraform, Wiz, SOC2, ISO27001, PCI-DSS
Desc	Cloud security architecture for a fintech startup: SOC2 Type II controls, ISO27001 gap analysis, PCI-DSS mapping, Terraform baseline (GuardDuty, WAF, KMS, VPC flow logs), Prisma CSPM, IR playbooks.	
Deliverables	✓ Architecture diagram ✓ SOC2 controls ✓ ISO27001 gap analysis ✓ Terraform baseline ✓ Prisma CSPM ✓ IR playbooks	
Roles	Cloud Security Architect Compliance Engineer GRC Analyst Security Engineer	

CAPSTONE — PROJECT 12: ALL 9 TRACKS INTEGRATED

PROJECT 12	AI-Powered Secure SaaS Platform — Complete Production System	<ul style="list-style-type: none"> CAPSTONE — 9 Tracks · 4 Months · Production-Ready 	
<ul style="list-style-type: none"> Python+FS 	Spring Boot+Next.js+Spring WebFlux+PostgreSQL+Redis+Spring Batch	<ul style="list-style-type: none"> AWS+GCP 	EKS+SageMaker+S3+RDS+Bedrock+BigQuery
<ul style="list-style-type: none"> DevOps 	GitHub Actions+Terraform+ArgoCD+Prometheus+ELK+Karpenter+Falco	<ul style="list-style-type: none"> AI+ 	PyTorch+MLflow+LangGraph+CrewAI+Pinecone+VLLM+LangFuse
<ul style="list-style-type: none"> Cyber 	Pentest Report+Splunk SIEM+Bandit SAST+IR Playbook	<ul style="list-style-type: none"> Cloud Sec 	WAF+KMS+Cognito+Security Hub+Prisma CSPM+SOC2+ISO27001
What it is	AI content creation SaaS — multi-tenant, Stripe-billed, GPT-4o streaming, brand RAG chatbot, fine-tuned LLM on VLLM, multi-agent pipeline, voice interface, analytics, AND enterprise security posture.		
Core Features	Multi-tenant Spring Boot+Next.js+Stripe billing (Free/Pro/Enterprise) · GPT-4o SSE streaming via Spring AI · RAG brand chatbot (Pinecone+hybrid search+Cohere Rerank) · Fine-tuned Llama 3.2 (QLoRA) on VLLM · CrewAI: Researcher→Writer→Editor→SEO · Whisper STT+ElevenLabs TTS · PySpark+BigQuery analytics · LangFuse LLM observability		
Security Layer	WAF+Cognito+MFA on all endpoints · KMS encryption at rest+transit · Splunk SIEM event monitoring · Security Hub+GuardDuty threat detection · Full pentest report of platform (exec+technical) · SOC2 Type II+ISO27001 controls mapping · DevSecOps CI: SAST+DAST+SCA+container scan gates · Falco runtime anomaly detection		
DevOps & Infra	Terraform all AWS (VPC,EKS,RDS,S3,CloudFront,ElastiCache,WAF,Security Hub) · GitHub Actions: pytest+Bandit+SonarQube+Snyk+Trivy+ZAP→ECR→ArgoCD→EKS (zero-downtime) · Prometheus+Grafana+LangFuse+ELK · Karpenter+Falco		
Deliverables	✓ Live app URL ✓ GitHub repo+CI badges ✓ Terraform IaC ✓ Fine-tuned HuggingFace model ✓ 90%+ test coverage ✓ Swagger docs ✓ Pentest report ✓ SOC2+ISO27001 docs ✓ Grafana+LangFuse dashboards ✓ Architecture diagram ✓ 3-min Loom demo		
Target Roles	Senior Full Stack · AI/ML Engineer · Cloud Security Engineer · DevSecOps · LLM Engineer · SaaS Developer · Cloud Architect · Penetration Tester		

POST-PROGRAM PLACEMENT SUPPORT

5500+ Placements	200+ Hiring Partners	98% Placement Rate	22 LPA Highest Pkg	60 Days Avg to Offer
Students Placed	Active Partners	Of Completers	2025 Record	First Offer

5-PHASE PLACEMENT GUARANTEE PROGRAM

PHASE 1 Wk 13-14	Portfolio & Personal Brand	ATS-optimized resume by career team · GitHub profile review (repos, READMEs, CI badges) · LinkedIn All-Star optimization + content strategy · Loom demos for all 12 projects · Tailored resume per role (Dev, ML, Security, Cloud)
PHASE 2 Wk 15-16	Interview Preparation	10 mock interviews: 5 DSA + 3 system design + 2 behavioral HR · STAR method coaching · System design templates for 7 popular questions · Domain Q&A; banks: Python, AWS, DevOps, ML, Security, AI · Salary negotiation scripts + offer evaluation framework
PHASE 3 Post Wk16	Job Application Support	Direct referrals to 200+ hiring partners · Weekly job alert digest for your tech stack · Naukri, LinkedIn, AngelList, Wellfound profile optimization · LinkedIn cold outreach templates to HRs and EMs · Application tracking support for 90 days
PHASE 4 Ongoing	Interview Scheduling	Placement team schedules all interviews on your behalf · Pre-interview company-specific briefing (culture, tech stack, rounds) · Post-interview debrief and targeted re-preparation if unsuccessful · 'Interview War Room' Slack channel — daily tips from placed alumni
PHASE 5 Offer Stage	Offer Negotiation	Market salary benchmarking by role, company and location · Counter-offer strategy without losing the offer · Offer letter review: joining bonus, variable pay, ESOPs, non-compete · Multiple offer comparison: growth vs compensation · Joining date + background verification support

Companies Where ASCEND Alumni Work

PRODUCT GIANTS	Google, Microsoft, Amazon, Meta, Adobe, Salesforce, Uber, Stripe, Anthropic, OpenAI
INDIAN UNICORNS	Flipkart, Razorpay, Swiggy, Zomato, CRED, PhonePe, Meesho, Zepto, Groww, Paytm
SECURITY FIRMS	Palo Alto Networks, CrowdStrike, Qualys, Rapid7, Secureworks, HackerOne, BugCrowd
GLOBAL MNCs	TCS, Infosys, Wipro, HCL, Capgemini, Accenture, Cognizant, IBM, Deloitte, LTIMindtree
AI STARTUPS	Sarvam AI, Krutrim, Yellow.ai, Haptik, Darwinbox, Unacademy, Postman, LeadSquared
GLOBAL REMOTE	Toptal, Turing, Arc.dev, X-Team, Crossover + 60+ US/UK/Canada/Australia remote startups

CAREER OUTCOMES & 2026 SALARY GUIDE

JOB ROLE	KEY SKILLS	INDIA 2026	GLOBAL
Java/Spring Boot Developer	Java, Spring Boot, REST APIs, JPA, Hibernate, Maven	■4-10 LPA	\$70-105K
Java Full Stack Developer	React+Next.js, Spring Boot, Spring Security, PostgreSQL	■5-15 LPA	\$80-125K
Cloud/AWS Engineer	AWS, Terraform, Linux, Docker, K8s, CI/CD	■6-16 LPA	\$85-140K
DevOps / SRE Engineer	K8s, GitHub Actions, Prometheus, ELK, GitOps	■7-18 LPA	\$90-148K
DevSecOps Engineer	DevOps + SAST/DAST/SCA + Security in CI/CD	■8-20 LPA	\$95-155K
Cyber Security Analyst	VAPT, SOC, SIEM, Incident Response, Pentesting	■5-14 LPA	\$75-120K
Cloud Security Engineer	AWS Security, Zero Trust, CSPM, SOC2, Compliance	■7-20 LPA	\$90-150K
Penetration Tester	Metasploit, Burp Suite, Kali, Web+Cloud Pentesting	■6-18 LPA	\$80-140K
Data Engineer	PySpark, Airflow, dbt, BigQuery, Kafka, Delta Lake	■6-16 LPA	\$85-140K
ML / AI Engineer	PyTorch, XGBoost, MLflow, Spring AI, SageMaker	■8-22 LPA	\$100-160K
LLM / GenAI Engineer	LangChain, Spring AI, RAG, Fine-tuning, Agents, VectorDBs	■9-26 LPA	\$120-180K
Agentic AI Developer	LangGraph, CrewAI, MCP, Multi-Agent, VLLM	■12-32 LPA	\$130-200K

DSA + CERTIFICATIONS + SUCCESS CHECKLIST

DSA + System Design Progress (Throughout 16 Weeks)

Weeks 1–4	Arrays, Strings, Linked Lists, Stacks, Queues — 26 Easy problems
Weeks 5–8	Binary Trees, Heaps, Graphs BFS/DFS — 20 Easy + 22 Medium problems
Weeks 9–12	DP (1D, 2D, knapsack), Greedy, Tries — 14 Easy + 14 Medium + 3 Hard
Weeks 13–16	Advanced DP, Bit Manipulation, Mock OA x 4 — 10 Medium + 2 Hard
System Design	URL Shortener · Twitter · Uber · Netflix · WhatsApp · Fraud Detection · AI Chatbot at Scale
TOTAL	90 Easy + 45 Medium + 5 Hard = 140 LeetCode 7 System Designs 20 Behavioral Answers Prepared

Certifications Aligned to ASCEND

CERTIFICATION	PROVIDER	PRIORITY / BEST FOR
AWS Certified Solutions Architect – Associate (SAA-C03)	AWS	■■■■ Very High — Cloud roles
CompTIA Security+ (SY0-701)	CompTIA	■■■■ Very High — Cyber Security entry
Certified Kubernetes Administrator (CKA)	CNCF	■■■■ Very High — DevOps roles
AWS Certified Security – Specialty	AWS	■■■■ High — Cloud Security
Offensive Security OSCP	Offensive Security	■■■■ Premium — Senior Pentester
Certified Ethical Hacker (CEH)	EC-Council	■■■ High — Pentesting roles
Google Professional Cloud Architect	GCP	■■■ High — Cloud Architect
TensorFlow Developer Certificate	Google	■■■ High — ML Engineer
HashiCorp Terraform Associate	HashiCorp	■■■ High — DevOps/IaC
DeepLearning.AI LLMops Specialization	Coursera	■■■ High — GenAI/LLM

Week 16 Success Checklist

■ 12 Projects Live	All deployed with URLs, GitHub repos, clean READMEs, CI/CD badges, Loom demos
■ GitHub Profile	100+ commits/month, all 12 pinned, consistent green contribution graph throughout
■ LinkedIn All-Star	All 9 tracks listed, 5 project posts with demos, 300+ connections, open to work
■ Personal Portfolio	Next.js on Vercel — projects, resume download, contact, tech blog
■ HuggingFace Hub	Fine-tuned model with model card + interactive Gradio demo Space
■ ATS Resume	1-page PDF, quantified metrics, tailored per role, keywords from 50+ real JDs
■ Pentest Report	Professional VAPT: executive summary + technical findings + remediation
■ Security Portfolio	Cloud security architecture doc + compliance mapping + CSPM report
■ Certifications	AWS Cloud Practitioner + CompTIA Security+ — both passed by Week 16
■ Mock Interviews	10 done: 5 DSA + 3 system design + 2 behavioral HR sessions completed
■ Demo Videos	12 Loom walkthroughs (2–3 min each) linked in resume + LinkedIn
■ Technical Blog	3+ articles on Dev.to/Hashnode — what you built + lessons learned

8 RULES FOR GETTING HIRED IN 2026

1	Code Every Day	2–3 hours hands-on building minimum. Theory without practice = zero retention and zero interviews.
2	Build in Public	Post your projects on LinkedIn weekly. Share what you built. Recruiters follow active builders.
3	Hack Ethically from Week 1	Use DVWA and cloud labs. Document every vulnerability. Security skills double your interview value.
4	Security-First Mindset	Every project: OWASP checklist, WAF, IAM audit. Shows senior-level thinking to interviewers.
5	Network Intentionally	Connect with 5 developers/HRs/security pros on LinkedIn daily. 70% of jobs come via referral.
6	Specialize by Month 4	One primary role: Developer OR Security OR AI/ML. Specialists get hired faster than generalists.
7	Stay Current	AI+Security changes weekly. Read: Krebs on Security, The Pragmatic Engineer, TLDR AI, CloudSecList.
8	DSA Non-Negotiable	1 LeetCode every day from Day 1. No exceptions. 140 problems by Week 16 = FAANG-ready.



ASCEND 2026

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