

Akshat Barve

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EDUCATION

VIT Bhopal University — CGPA: 8.92

Bhopal, MP

B.Tech. in Computer Science Engineering (Cloud Computing & Automation)

Sep 2022 – Present

Relevant Coursework: Data Structures & Algorithms, Operating Systems, OOPs, DBMS, Computer Networks

Shri Bal Vinay Mandir

Indore, MP

Class XII (CBSE) — Percentage: 92%

Jul 2022

TECHNICAL SKILLS

Languages: Java, Python (infra/serverless), SQL, NoSQL

Backend: Spring Boot, Spring Framework, Hibernate, JPA, REST API, JWT, Microservices

Testing: JUnit, Mockito, pytest, moto (AWS mocking)

Build Tools: Maven, Gradle

Databases: PostgreSQL, Redis, DynamoDB, Supabase

Cloud & DevOps: AWS (EC2, S3, Lambda, RDS, IAM, EventBridge, API Gateway, Cognito), Terraform, Docker, Git, GitHub Actions (CI/CD), Linux, Postman

AI & Tooling: GitHub Copilot, Claude Code, LLM API Integration

PROJECTS

FinOps Dashboard | Python, AWS Lambda, DynamoDB, Terraform

Jul 2026

- Architected a serverless AWS cost-anomaly platform: **5 single-responsibility Lambdas** (Python 3.12) via **EventBridge**, decoupling ingestion, aggregation, and Slack alerting.
- Modeled a two-table **DynamoDB** schema (raw vs. pre-aggregated) with a GSI for trend queries; implemented Z-score + spike-based anomaly detection with cold-start-aware thresholds.
- Defined the full stack in **Terraform** (remote state in S3); built a **GitHub Actions CI/CD** pipeline gating **terraform apply** behind pytest + moto tests at **80%+ coverage**.
- Secured API Gateway HTTP API v2 routes with native **Cognito** JWT authorizers and Secrets Manager credential storage — no custom auth code.

AarogyaKul | Java, Spring Boot, PostgreSQL, Llama, React

Jun 2026

- Designed a **six-stage async** document pipeline (**Spring @Async** + `afterCommit()` hook) returning 202 Accepted instantly while OCR and LLM extraction run in the background.
- Built a dual-path extraction stage (**PDFBox** with **Tesseract OCR** fallback) on a 50-char threshold, cutting latency 10–50x on digital PDFs vs. OCR-everything.
- Engineered a 26-entry canonicalization map and a reference-range-aware trend algorithm using **BigDecimal** precision for accurate cross-report comparison despite inconsistent LLM naming.
- Enforced ownership-validated data access via a single traversal query, with a config-toggled **S3** / local-filestorage abstraction for zero-AWS local dev.

AI Resume Screener | Java, Spring Boot, PostgreSQL, Redis, AWS S3

Jan 2026 – Mar 2026

- Built a RESTful API in **Spring Boot 3.0** / **Java 21** to automate candidate screening, cutting manual review time by 80%.
- Integrated **Meta's Llama-3** for semantic resume analysis, hitting 90% match accuracy vs. keyword-based approaches.
- Cut API latency to <200ms with **Redis** caching, backed by **PostgreSQL** with optimized indexing on applicant data.
- Decoupled AI inference from the request lifecycle via **async parsing** — immediate 200 OK, Llama-3 runs in the background — secured with **AWS S3** storage and **JWT** auth.

CERTIFICATIONS

AWS Certified Cloud Practitioner

Feb 2026

DevOps Fundamentals — IBM Career Education Program

Mar 2025

Solutions Architect — Ethnus (Training Program)

Apr 2025

Object Oriented Programming in Java — Coursera

Jun 2025

Fundamentals of Cloud Computing — Coursera

Jun 2025