A. AKASH ACHARY

Software Engineer | Java, Spring Boot, Microservices, Cloud & Distributed Systems | 3 Years of Experience
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PROFESSIONAL SUMMARY

Java Full-Stack Software Engineer with 3 years of experience designing, building, and deploying Spring Boot microservices and event-driven distributed systems in Agile, globally distributed teams. Hands-on with Java, Spring Boot, Microservices architecture, RESTful API design, and cloud-native deployment (Azure, AWS, Docker, Kubernetes) via Git/GitLab CI/CD pipelines. Builds asynchronous, event-driven systems with Apache Kafka (500+ events/sec) and applies secure coding practices and OOP/design patterns across the SDLC. Full-stack capable with ReactJS and Angular integrated with backend services; comfortable partnering with engineers, QA, and stakeholders to improve service quality and availability.

CORE COMPETENCIES

Java & Object-Oriented Programming • Spring Boot & Microservices Architecture • Design Patterns & Integration Patterns • Distributed & Event-Driven Systems (Apache Kafka) • Cloud-Native Development (Azure, AWS, Kubernetes) • RESTful API Design & Integration • ReactJS / Angular, HTML, CSS • Secure Coding & Compliance • CI/CD & Test Automation (Git, GitLab CI/CD) • Agile/Scrum Collaboration • Observability & Production Reliability

TECHNICAL SKILLS

- **Programming Languages:** Java (8/11/17), JavaScript, TypeScript, Python (scripting), Go (working knowledge)
- **Backend & Frameworks:** Spring Boot, Spring Framework, Spring Security, Spring Data JPA, Hibernate ORM, J2EE, REST API Design, Design Patterns, GraphQL & gRPC (working knowledge)
- **Frontend:** ReactJS, Angular, HTML, CSS
- **Cloud & Containers:** Microsoft Azure (App Service, Storage, Key Vault), AWS (working knowledge), Docker, Kubernetes
- **Messaging & Event-Driven:** Apache Kafka (500+ events/sec), Amazon SQS, Event-Driven Architecture
- **Databases:** MySQL, PostgreSQL, MongoDB, SQLite, Redis — schema design & query optimization
- **Security:** JWT, OAuth2, Spring Security, secure coding practices
- **Testing & Quality:** JUnit 5, Mockito, SonarQube, peer code review
- **Build, CI/CD & Tools:** Maven, Git, GitHub, GitLab CI/CD, Agile/Scrum, JIRA
- **Monitoring & Observability:** Prometheus, Grafana, ELK Stack, root-cause analysis

PROFESSIONAL EXPERIENCE

Software Developer — Signovate Technologies Pvt Ltd **Aug 2023 – Present**

- Designed, coded, tested, and deployed 8+ production Java 17/Spring Boot microservices for a platform serving 500+ users, applying object-oriented design and modular integration patterns to achieve zero major rollback incidents.
- Built and scaled an event-driven backend on Apache Kafka messaging, enabling asynchronous, high-throughput processing of 500+ events/sec across multiple integrated services on Microsoft Azure cloud infrastructure.
- Designed secure REST APIs with JWT/Spring Security and OAuth2 authentication, and improved API response time by 25% through SQL query optimization, indexing, and schema design across MongoDB and MySQL.
- Containerized backend services with Docker, deployed to Kubernetes, and built GitLab CI/CD pipelines (Git, Maven) to automate testing and delivery; authored JUnit/Mockito test suites and led code reviews for every release.
- Diagnosed and resolved 40+ production issues using Prometheus, Grafana, and ELK Stack, performing root-cause analysis and driving fixes within SLA commitments to improve platform availability.
- Delivered responsive ReactJS and Angular UI components integrated with backend REST APIs, partnering with frontend and product teams to improve the end-user experience.

PROJECTS (SELF-INITIATED)

Intraday Algo Trading Platform — *Production Live · quantengine.trade*

Java 17 · Spring Boot · Apache Kafka · Docker · Microservices · Integration Patterns · DHAN Broker API

- Independently designed, built, and deployed a production-live, full-stack distributed platform with Java 17/Spring Boot REST APIs, backend microservices, and live monitoring dashboards to automate trade execution and monitor system health in real time.
- Adopted a multi-module microservices architecture with clear integration patterns, deployed via Docker Compose; integrated the DHAN broker API with authentication, input validation, and structured error handling across service boundaries.
- Built and scaled an event-driven backend on Apache Kafka messaging processing 500+ events/sec, with observability tooling and live dashboards.

Salary Management System — *Production Live · salary-management-gv69.onrender.com*

Java 17 · Spring Boot 3 · Spring Data JPA · SQLite · Angular 19 · Angular Material · Docker

- Built a full-stack salary management system with a layered Spring Boot backend (web/service/domain/repository) and an Angular 19 SPA, modeling compensation as an append-only timeline (not a mutable salary field) with service-layer invariants preventing overlapping or backdated pay records.
- Designed a REST API with dynamic filtering, sorting, and server-side pagination (JPA Specifications), hand-written aggregate SQL for an HR insights dashboard (headcount/cost breakdowns, salary distribution, gender pay-gap analysis), and streamed CSV export.
- Implemented request validation and centralized exception handling (400 vs. 422 business-rule rejections), and containerized the app with a multi-stage Docker build that packages the Angular build into a single deployable Spring Boot jar; covered by 68 automated tests (JUnit, Mockito, MockMvc, Jasmine).

Digital Wallet System

Java · Spring Boot · Spring Data JPA · MySQL · REST APIs · Design Patterns

- Designed and built a Java/Spring Boot backend supporting balance management, fund transfers, deposits, and withdrawals through a RESTful API layer, modeling a relational schema (accounts, transactions, ledger entries) in MySQL with JPA/Hibernate.
- Applied a layered architecture (Controller, Service, Repository) with transactional operations to keep balance updates consistent under concurrent requests, with input validation and structured error handling.

Cricket Player Booking Platform (MERN)

React · Node.js · Express · MongoDB · REST APIs

- Architected a RESTful API layer in Node.js/Express with 10+ endpoints covering user management, slot availability, and the full booking lifecycle (create/update/cancel), paired with a responsive React frontend.
- Designed a MongoDB schema with Mongoose using referenced collections and indexed fields on slot/date queries to support efficient availability lookups and prevent double-booking conflicts.

Smart Surveillance System

Python · OpenCV · YOLOv8 · PyTorch · Face Recognition · MongoDB

- Developed a real-time AI surveillance system using YOLOv8 for object detection and OpenCV for video processing, with face recognition, multi-camera tracking, and entry/exit monitoring for high-density environments.
- Designed MongoDB collections to store detection events, recognized faces, and alert history, and improved detection performance using GPU acceleration and optimized image-processing pipelines.

EDUCATION

B.Tech, Information Technology — NIST University (CGPA: 7.2), completed alongside full-time engineering work

Diploma — (79%)