

AkshayKumar Amavarapu

Software Engineer — Java Full-Stack Developer — Open Source Contributor

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#) | [LeetCode](#)

Technical Skills

Languages: Java, SQL, JavaScript, TypeScript

Frontend: ReactJS, NextJS

Backend & Frameworks: Spring Boot, Spring Framework, REST APIs, Microservices

Databases & Caching: PostgreSQL, Redis

Testing & Developer Tools: JUnit, Mockito, Docker, Maven, Git, Linux

Core CS: Data Structures & Algorithms, Object-Oriented Programming (OOP), DBMS, Operating Systems, Computer Networks

Open Source Experience

Open Source Contributor – Apple ServiceTalk

[PR #3613](#) — Aug 2026

- Diagnosed and fixed flaky **GC-sensitive processor tests** in Apple's open-source ServiceTalk project by replacing unreliable one-shot GC timing with bounded **ReferenceQueue** retries.
- Incorporated maintainer feedback on **Java object reachability** and validated the fix with **50 consecutive stress runs** and the complete **3,293-test module suite**; contribution **merged upstream**.

Open Source Contributor – Kestra

[PR #18022](#) — Aug 2026

- Diagnosed an invalid-flow save path where client-side validation suppressed detailed **backend validation errors**.
- Updated flow-save handling and added **regression tests** covering affected save paths; contribution was reviewed and **merged upstream**.

Open Source Contributor – CommaFeed

[PR #2272](#) — Aug 2026

- Fixed login **401 authentication error handling** by mapping backend application errors to localized Lingui messages while preserving unexpected backend errors.
- Added typed error handling with **unit and Playwright test coverage** for localized authentication errors and fallback behavior; contribution **merged upstream**.

Open Source Contributor – toknt

[PR #24](#) — Aug 2026

- Implemented **Maven/Surefire test-output parsing** for test, failure, error, and skipped counts with failed Java test-name extraction.
- Added parser and routing tests while preserving Jest, Vitest, Pytest, and generic parsing behavior; contribution was reviewed and **merged upstream**.

Projects

Microservices-Based E-Commerce Platform

[GitHub](#)

- Developed a full-stack e-commerce platform with **Authentication, Product, and Order microservices** using Spring Boot, REST APIs, PostgreSQL, and a responsive Next.js frontend.
- Implemented **JWT authentication, role-based access control**, API Gateway routing, and inter-service communication using Eureka and OpenFeign; built product search, cart, order, inventory, and admin workflows.

Tech: Java, Spring Boot, Spring Security, PostgreSQL, Spring Cloud, Next.js, TypeScript, Tailwind CSS, shadcn/ui

Social Media Backend API

[GitHub](#)

- Built REST APIs covering **6 core workflows**: authentication, posts, likes, comments, follow/unfollow relationships, and personalized feed generation.
- Resolved **N+1 query issues** using JPQL Fetch Joins and optimized read-heavy feed queries with **Redis caching, pagination, and composite indexes**; added unit and controller tests using JUnit and Mockito.

Tech: Java, Spring Boot, Spring Security, JPA, PostgreSQL, Redis, Docker, JUnit, Mockito

URL Shortener Service

[GitHub](#)

- Built a Spring Boot URL-shortening service supporting custom aliases, URL expiration, redirects, and click analytics using collision-free **Base62 keys generated from PostgreSQL sequences**.
- Optimized redirect lookups using **database indexing and application caching** and implemented IP-based **fixed-window rate limiting** to protect APIs from excessive requests.

Tech: Java, Spring Boot, Spring Security, PostgreSQL, Spring Cache, Docker, Maven

Education

Bachelor of Technology (B.Tech) – Electronics and Communication Engineering

2022–2026

Rajiv Gandhi University of Knowledge Technologies, Nuzvid

CGPA: 7.0/10

Achievements

- Contributed to **5+ open-source projects**, including Apple ServiceTalk, Kestra, CommaFeed, and toknt.
- Solved **600+ Data Structures & Algorithms problems** across LeetCode and related coding platforms.
- Maintained a **400+ day LeetCode coding streak** through consistent algorithmic problem-solving practice.