

Kesavaraja M

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SUMMARY

Pre-final year CS undergraduate (CGPA: 9.03) with strong foundations in full-stack development using React, Next.js, TypeScript, and Java — building and shipping production-ready systems end-to-end from system design and database schema normalization to containerized CI/CD deployment. Proven ability to move fast: shipped a full-stack SaaS PWA solo, a production microservice at a hackathon, and merged +1,896 lines into a production open-source AI OS.

TECHNICAL SKILLS

Languages: Java, TypeScript, Python, JavaScript, SQL, HTML/CSS

Frameworks & APIs: Spring Boot, FastAPI, Node.js, Next.js 15, React.js, Tailwind CSS, RESTful API Design

Databases: PostgreSQL, MySQL, Redis, SQLite

DevOps & Tools: Docker, Git, GitHub Actions, Vercel, Railway, Linux, Postman, SonarQube

Practices: System Design, OOP, Microservices, Unit Testing, CI/CD, Agile, Debugging, Technical Documentation

PROJECTS

75 Club | *Next.js 15, TypeScript, PostgreSQL, FastAPI, Supabase, Razorpay* | [Live](#)

- Designed and shipped a production-grade full-stack SaaS PWA as solo developer — multi-tenant PostgreSQL schema, FastAPI backend, CI/CD on Vercel — owning the complete software development lifecycle from system design to deployment at a 95+ Lighthouse score.
- Built an OCR + AI data ingestion pipeline for automated timetable parsing, eliminating manual data entry and enabling intelligent schedule processing for end users.
- Integrated Razorpay payment API for subscription management and implemented PWA features (service workers, offline capability) for a mobile-first user base.

API Rate Limiter | *Java 21, Spring Boot, Redis, MySQL, Railway* | [Live](#)

- Architected a production rate limiting service in Java Spring Boot with Redis sorted sets implementing the sliding window algorithm, enforcing per-user request limits at $O(\log n)$ under concurrent load.
- Engineered a Spring `OncePerRequestFilter` for API key validation and real-time rate enforcement; designed a 3-layer architecture (Controller → Service → Repository) with Spring Data JPA and `@Transactional`-safe MySQL persistence.
- Deployed on Railway with cloud MySQL and Redis; configured environment variable injection and service-to-service networking for zero-credential-exposure production deployment.

Compliance Sentinel | *Java, Python, FastAPI, Docker, SQLite, Pytest* | [GitHub](#)

- Shipped a production-ready containerized RESTful microservice with a 3-layer defense architecture under hackathon constraints — 100% attack block rate, sub-millisecond latency, full Docker deployment.
- Applied OOP design patterns for modular middleware (PII redaction, audit logging, request validation) with comprehensive Pytest coverage and OpenAPI documentation.

OPEN SOURCE CONTRIBUTIONS

cxlinux-ai/cx-core — AI Linux OS | *Python, Docker, SQLite, Pytest, Linux*

- Merged PR #521 (+582 lines): Docker permission diagnosis tool with CLI flags, dry-run mode, WSL2-aware UID/GID detection — 6/6 Pytest tests; cleared SonarQube quality gates (0 security hotspots).
- Merged PR #542 (+1,314 lines): System Role Management with privacy-hardened shell history analysis, PII redaction, cross-platform file locking, and audit-compliant SQLite persistence — 86.63% coverage, 20/20 tests; addressed 7 commits of maintainer feedback.

CERTIFICATIONS & ACHIEVEMENTS

SQL Advanced — HackerRank (Feb 2025) | Advanced queries, joins, subqueries, optimization

Oracle Cloud Infrastructure 2025 Generative AI Professional — Oracle (Oct 2025)

IBM Hybrid Cloud Architect — IBM / Coursera (May 2026) | Microservices, containers, DevOps, Agile, SRE

Archestra.ai “2 Fast 2 MCP” Hackathon — Shipped Compliance Sentinel under competition constraints; 100% attack block rate

EDUCATION

SRM Institute of Science and Technology (SRMIST)

B.Tech in Computer Science and Engineering | CGPA: **9.03** / 10.0

Tiruchirappalli, India

June 2023 – May 2027 (Expected)