

Keshav Arunesar

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Professional Summary

Results-driven Software Engineer specialized in building scalable full-stack applications using **Java (Spring Boot)**, **Next.js**, and **AI integration**. Strong foundation in backend architecture, RESTful API design, systems-level programming (concurrency, JDBC), and performance optimization using **Redis** and **Docker**. Passionate about leveraging Large Language Models (LLMs) to build intelligent, user-centric solutions.

Technical Skills

- **Languages:** Java, PHP, JavaScript (ES6+), SQL (PostgreSQL, MySQL), HTML, CSS
- **Frameworks:** Spring Boot, Spring AI, Next.js, React, Laravel, Thymeleaf, NestJS
- **Tools & Tech:** Docker, Git, Redis, Supabase, OpenAI API, REST APIs, Linux, Grafana (*learning — backend monitoring & observability*)
- **Core Skills:** Object-Oriented Programming (OOP), Microservices, Concurrency, Prompt Engineering

Work Experience

Rexish Ltd Sep 2025 – Present
Software Engineer – Full Stack Developer Remote

- Developed full-stack web applications using **Spring Boot**, **NestJS**, and **Next.js**, ensuring high availability.
- Designed **RESTful APIs** with secure authentication and optimized PostgreSQL queries for real-time data.
- Integrated **Redis caching**, resulting in a **25% reduction** in server response latency.
- Orchestrated containerized deployments using **Docker** to streamline CI/CD workflows.
- Currently adopting **Grafana** to monitor backend service health and system performance.

Projects

Job Scheduler — *Java, JDBC, SQLite, Multithreading* Link

- Built a task queue and worker pool from scratch in plain Java to master concurrency and JDBC internals typically abstracted by frameworks.
- Implemented a thread-safe job queue (BlockingQueue + fixed ExecutorService pool) with retry logic and a terminal DEAD state.
- Added JDBC-backed persistence with SQLite so job state survives application restarts, with the database as the single source of truth.

Spring AI Multi-Tool — *Java, Spring Boot, OpenAI API* Link

- Built an AI-powered suite using **Spring AI** to interact with GPT-4 and DALL-E models.
- Developed a conversational chatbot, an automated recipe generator with dietary logic, and a text-to-image generator.
- Implemented robust API abstractions to handle asynchronous AI model responses and error states.

F1 Performance Analytics App — *Spring Boot, Thymeleaf, FastAPI* Link

- Developed a data-driven application to fetch and visualize Formula 1 driver statistics and Grand Prix timesheets.
- Integrated third-party **F1 Fast APIs** to process historical performance data by year.
- Built a dynamic frontend using **Thymeleaf** for real-time data rendering and performance comparison.

Clinical Management System — *PHP, MySQL, JavaScript* Link

- Engineered a healthcare platform that reduced administrative overhead by **30%** through workflow automation.
- Features include patient registration, medical report generation, and real-time dashboard analytics.

Education

University of Colombo School of Computing (UCSC) Colombo, SL
Bachelor of Information Technology (BIT) Graduated 2025

Highlands National College Hatton, SL
G.C.E. Advanced Level - Physical Science 2020