

# Aravind S

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Java Developer with 3 years of experience in building scalable backend systems using Java, Spring Boot, and RESTful APIs. Proficient in automating workflows, cloud integration, developing robust microservices, and implementing CI/CD pipelines. Passionate about innovation and currently exploring Generative AI, with hands-on experience in LLM integration, prompt engineering, and building AI-powered web applications.

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## EDUCATION

APJ Abdul Kalam Kerala Technological University

Kerala, India

Bachelor of Technology in Computer Science, GPA: 9.04/10

Aug 2018 - June 2022

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## TECHNICAL SKILLS

- **Programming Language:** Java, Python, Typescript.
- **Concepts:** Data Structures, Algorithms, Object Oriented Programming, Microservices.
- **Web Technologies and Frameworks:** Spring Boot, Flask, Next.js, Hibernate, JPA, REST APIs.
- **Database & Storage:** MySQL, MongoDB, Redis, AWS S3.
- **Testing:** JUnit, Mockito, Postman.
- **Devops & Tools:** Docker, Kubernetes, Jenkins, Maven.
- **Version Control:** Git, BitBucket, JIRA.

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## WORK EXPERIENCE

Bosch Global Software Technologies

Coimbatore, India

*Java Developer*

Sep 2022 – Jan 2024

- Developed Java plugins for **AEEE Pro**, an Eclipse-based automotive tool used by **5,000+** associates across multiple business units and **10+** global customers.
- Designed and executed unit tests using **JUnit** and **Mockito**, achieving **high code coverage**.
- Built import workflows using Java, reducing manual effort by **40%** and enhancing integration efficiency.
- Implemented XML export functionality leveraging **Apache POI**, enabling seamless data exchange and interoperability.
- Managed version control using **Git** and collaborated effectively in a team setting.
- Integrated builds and automated deployments using **Jenkins**, streamlining CI/CD pipelines.
- Handled end-to-end release cycles in **Agile** environment using **JIRA**, ensuring timely, quality deliveries.

*Backend Developer*

Feb 2024 -Present

- Designed and implemented a file handling service for Review Tool using **Spring Boot**, integrating **AWS S3** for scalable file storage and **MySQL** for metadata, with **REST APIs** enabling secure, on-demand upload and retrieval of work item files.
- Developed the review management module with RESTful APIs to create, assign, and track review tasks, incorporating **Spring Security** for role-based access control and **RabbitMQ** for asynchronous event-driven notifications..
- Containerized the application using **Docker** and deployed it on **Kubernetes** within the internal Bosch Dev Cloud, ensuring scalable deployments and consistent runtime environments across development and production.
- Verified API functionality using **Postman** for manual testing and integrated **Swagger UI** for interactive documentation and easier collaboration across teams.
- Developed a **Python**-based tool to automate the conversion of LDF (LIN Description Format) files to DBC (CAN database format) via intermediate Excel mapping, replacing licensed tools with a cost-effective in-house solution.
- Scaled the POC into a lightweight **Flask** application with a React-based UI, enabling **100+** associates across India and Europe to view and manage files without licensing restrictions.

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## PROJECTS

E-Commerce Backend | Microservices based Spring Boot Application

- Built an e-commerce backend with microservices architecture using Spring Boot and Spring Cloud.
- Designed independent services (User, Product, Order) with RESTful APIs, service registration via Consul, and centralized config using Spring Cloud Config Server.
- Implemented API Gateway with Spring Cloud Gateway and inter-service communication using OpenFeign.
- Integrated MySQL for data persistence and Redis for basic caching, gaining experience in service interaction and environment setup.

### [TalkWithYourDB](#) | Natural Language Database Query Tool

- Engineered an application that converts natural language queries into Database specific queries using AI, enabling easy database querying for non-technical users.
- Supports multiple SQL and NoSQL database types and enables real-time querying by connecting to both local and cloud-hosted databases.
- Built frontend with React and Next.js, LLM integration, and advanced prompt engineering, focusing on seamless user experience.

### [AI Portfolio](#) | Interactive AI-Powered Resume

- Developed a dynamic AI-based portfolio enabling recruiters to interact with a chatbot and inquire about my projects, experience, skills, and resume in real time.
- Uses LLM-based prompt engineering for automated profile exploration.
- Built with Next.js and deployed on Vercel for seamless performance and scalability