YASHRAJ AGARWAL

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Profile Summary

- Experienced in various frameworks, such as **Java**, **Spring Boot** for **backend** development, along with React for building dynamic user interfaces.
- Strong knowledge of database management, proficient in both MongoDB and **PgSQL/MySQL**.
- Skilled in version control and **CI/CD** processes, leveraging **Git** and **GitHub** Actions to automate software delivery.
- Proven ability to design and deploy scalable, high-performance backend systems ensuring system reliability and resilience.
- Adept at collaborating with product, design and engineering teams to deliver high-quality software in fast-paced, agile environments.

Work Experience

Software Development Engineer - 2 — Miniorange   Mar 2025 – Present — Pune, Maharashtra

- **Architected** and developed **microservices** for authentication, MFA, licensing, and policy enforcement for 100+ enterprise clients using Java, Spring Boot, and MySQL.
- Designed a high-throughput licensing verification system with **Spring AOP** and Redis caching, achieving **sub-50ms** checks for **millions** of **requests**.
- Implemented an **AI-powered** admin assistant integrating **LLM APIs (Gemini, OpenAI)** with a React frontend and Spring Boot backend, reducing L1 support tickets by **40%.**
- Built a fault-tolerant **SMTP** and notification service capable of sending **10M+ monthly** emails, with templating and retry mechanisms for guaranteed delivery.
- Championed backend **code reviews**, mentored 4 junior developers, and established coding and API design standards, improving **code quality**, maintainability, and service interoperability.
- Developed **RAG**-based document retrieval system enabling the **AI assistant** to provide instant, context-aware answers from product documentation.
- Designed and implemented **asynchronous** bulk upload/export modules in Spring Boot capable of processing 5M+ records efficiently.
- Leveraged **multithreading**, **streaming APIs**, and batch processing to optimize memory usage and reduce processing time by 60%.

Software Development Engineer — Michelin   Dec 2022 – Mar 2025 — Pune, Maharashtra

- Developed customer portal features for the CRM team using React, Spring Boot, AWS Lambda in a TDD environment, maintaining over 90% test coverage.
- Improved **API response times** by 15% through Redux middleware optimization and backend query tuning.
- Designed and deployed serverless APIs for PDF/Word generation, reducing backend load by 30%.
- Managed **Elasticsearch** clusters for **high-performance**, sub-second search queries across millions of records.

Technical Skills & Tools

Languages	Java, Python, TypeScript, HTML, CSS
Frameworks	Spring Boot, React, NextJS, Spring
Infrastructure & Cloud	Docker, AWS Serverless, Firebase
Databases	MongoDB, MySQL
Development Tools	Git, GitHub Actions

Education

Bachelor of Engineering in Computer Science   2018 – 2022
Vellore Institute of Technology, Tamil Nadu   CGPA: 8.5/10