

# YASHRAJ AGARWAL

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## Profile Summary

Dynamic Engineer with **over 3 years** of expertise in crafting elegant, scalable code and delivering exciting user experiences. Equipped with a comprehensive skill set in full stack web development, project management and problem-solving.

- 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 **MySQL**, facilitating effective data storage and retrieval solutions , version control and CI/CD processes, leveraging **Git** and **GitHub Actions** to automate software delivery.

## Work Experience

### Software Development Engineer - 2 | Miniorange

March'25 – 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 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 and 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 - 2 | Michelin

Dec'22– March'25 | 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  
Vellore Institute of Technology, Vellore, Tamil Nadu

July 2018 – June 2022  
CGPA: 8.5