

YASHRAJ AGARWAL

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Profile Summary

- Dynamic Engineer with **over 2 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 **Spring Boot** and **Django** for backend development, along with **React** and **NextJS** 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 | Michelin

Dec'22- Present

- Contributing to technical documentation, including **API** design specs and architectural diagrams, facilitating onboarding and system enhancements.
- Optimizing system performance by identifying bottlenecks and implementing solutions, resulting a **30%** increase in overall efficiency, benefitting more than **50,000** customer dealers.
- Developing customer portal features for the CRM Team using **React**, **Spring Boot**, and **Jest** in a Test-Driven Development (**TDD**) environment, maintaining over **90%** test coverage and improving load times by **50%** through **Lazy Loading**.
- Automating **Cypress** test scripts for multiple components, increasing end-to-end coverage from **0%** to **70%**.
- Designing and implementing REST APIs in **Java**, utilising **AWS Lambda** and **DynamoDB** to enable users to generate structured data in PDF/Word format, ensuring seamless deployment within a **serverless** architecture.
- Streamlining front-end and back-end communication using **RESTful API** techniques, improving data consistency by 50% and enhancing site uptime by **25%** through effective front-end debugging in **React**.
- Developing **Redux** middleware to reduce API response times, resulting in a **15% improvement** in page loading speed and a better user experience.

Software Development Engineer | Bajaj Finance Limited

Jul'22 - Nov'22

- Optimized system components leveraging **Spring Boot** and **React.js**, enhancing overall speed by **45%**.
- Deployed backend APIs through **Spring Boot**, improving node **interoperability** and boosting data processing speed by **25%**.
- Building server-side rendered and statically generated pages, designing and building atomic reusable components. Design, develop and deliver highly scalable and reliable web applications and component libraries using **React JS** and **Redux**.
- Researched and gained expertise in HTTP requests, API integrations ,JavaScript, DOM, CSS3, HTML5, **ReactJS**, Tailwind CSS3, SSR, **algorithms**, **data structures**, operating system, databases, Docker, Gitlab, MongoDB, **AWS**, REST APIs, GraphQL, software design, asynchronous programming, **Typescript** , state management libraries, debugging, **CI/CD** pipelines, agile development, Jest, automated testing, integration, Git, Webpack, Babel etc while actively applying them in work
- Wrote unit test cases and integration test cases using **JUNIT** and achieved the coverage of **95%** for **Micro services**.
- Developed features for the customer grouping project using **Spring Boot**, building out **5** distinct **APIs** with integrated post-deployment testing and pre-deployment design.

Technical Skills & Tools

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

Education

Bachelor of Engineering in Computer Science
Vellore Institute of Technology, Vellore, Tamil Nadu

July 2018 – June 2022
CGPA: 8.5

Core Competencies

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| • Full Stack Development | • Cloud Computing (AWS Serverless) | • Test-Driven Development (TDD) |
| • Agile Methodologies | • Database Management | • Microservices Architecture |