

AASHIRWAD KUMAR

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Education

Birla Institute of Technology

Integrated MSc Mathematics and Computing, GPA: 8.64

July 2018 – June 2023

Mesra, Jharkhand

Experience

Fastenal IDC

Software Developer(Full Stack Developer)

Jan 2023 – Present

Bangalore, Karnataka

- **Microservices Development:** Spearheaded the design and implementation of microservice for a B2B e-commerce platform, managing 70% of online sales using Spring Boot 3, Java 17 by parsing through legacy file uploading formats.
- **Performance Optimization:** Achieved a 92% reduction in page load time (from 50s to 4s) through SQL query optimization and API call minimization, significantly enhancing client satisfaction.
- **Authentication System:** Engineered a secure "View As" functionality using Azure B2C tokens, facilitating user impersonation and session management.
- **International Expansion:** Developed international EPO functionality with a 3-layer address validation system, leveraging locality tables and Google Location API Java Library.
- **Application Enhancement:** Implemented multithreading for bulk API calls, reducing load times by 75% for large account data loading on webpage.
- **Architecture Modernization:** Transitioned to a micro-frontend architecture using Webpack 5 and Module Federation 3, improving maintainability and scalability within a BFF-based distributed microservices architecture.

Projects

Code Editor | *React, Material UI, Monaco Editor, Judge0 API*

GitHub Link

- **Development:** Developed a web-based code editor supporting multiple programming languages using React 17 and Monaco Editor.
- **Features:** Integrated syntax highlighting, code compilation, and execution capabilities via the Judge0 API.
- **UI/UX:** Designed a modern interface with Material UI 5, featuring theme customization and responsive layout.

E-commerce Microfrontend | *React, Webpack, Spring Boot, Azure*

Full Stack Development

- **Architecture:** Developed a micro-frontend architecture using Webpack 5 and Module-Federation 3.
- **Backend:** Created a Backend for Frontend (BFF) layer with Spring Boot 3 and Java 17 for optimized API responses.
- **Frontend:** Utilized JSS with React 17 for UI design in the microfrontend setup.

Technical Skills

Languages: Java (11, 17), JavaScript, HTML/CSS, SQL, JSP

Frameworks/Libraries: Spring Boot, React, Redux, Material UI, Bootstrap

Cloud & Tools: Git, Maven, Jenkins, Basics of Azure and Kafka

Development: Microservices Architecture, REST APIs, JPA/Hibernate, Unit Testing, CI/CD, BFF Architecture

Databases: Oracle SQL, MongoDB

Achievements

- Awarded a Spot Award in Q1 2024 for exceptional performance in developing and deploying critical business applications.
- Actively contributed to company culture as a core member of the CSR team, organizing blood donation drives and coordinating Fastotsav cultural events (2023, 2024).
- Selected as a Smart India Hackathon Finalist, representing BIT Mesra at the national level.
- Achieved 1st rank in the Crio Do Weekend Challenge for asynchronous API implementation.