

# Ayush Acharya

SOFTWARE ENGINEER

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## WORK EXPERIENCE

### Fastenal

Team: E-Commerce

SOFTWARE ENGINEER - FULL STACK

July 2023 - Present

- **Codebase Migration and Replatform:** Worked on the re-platform project to migrate and modularize the [Fastenal website](#), optimizing costs and serviceability. Worked on upgrading the Spring Boot and Java versions. Worked with liquibase and terraform scripts.
- **Microfrontend architecture:** Implemented microfrontend architecture to modularize the monolith front-end code and optimized performance of website with use of **Compression** plugins (**Gzip** and **Brotli** algorithms). Improved code reusability by exposing shared dependencies and components, implemented with the help of **Module Federation** plugin. These shared components were **lazy loaded** into required application with **Error handling** to ensure the application worked in case of any microfrontend failure.
- **Custom Table (Config Driven UI):** Implemented and integrated a config driven UI for Custom Table component being used across various applications at the company, making the codebase/UI cleaner, consistent and customizable.
- **Enhanced website UI and mobile view:** Implemented cohesive and user-friendly website interface as part of re-platform milestones with **mobile-first** approach.
- **Microservices:** Implemented backend endpoints in Java (Spring Boot) to consume data from MongoDB and return to bff (backend for frontend) layer. Implemented **OpenAPI (Swagger)** specification for documenting and easy consumption of the **REST APIs**.
- **Technical planning:** Worked directly with Tech Lead and Solution Architect to create **WBS** and initial project setup (microfrontend + microservice) for next milestone as part of re-platform for order history, shopping cart and checkout (Shipping / Delivery / Payment) pages.
- **Team Onboarding and Training:** Facilitated onboarding and training of team members, fostering a collaborative and knowledge-sharing environment.
- Frameworks/Tools: **JavaScript, ReactJS, Java, Spring Boot, SQL, MongoDB, Microservices, Mircofrontend, Power BI (Basics)**

SOFTWARE ENGINEER INTERN

Jan 2023 - Jun 2023

- **E-Commerce Project:** Designed and developed a robust e-commerce application from ideation to full implementation with ReactJS as front-end, and several microservices.
- **Spring Boot, Java upgrade:** Worked with terraform and liquibase scripts, etc to upgrade the Spring Boot and Java versions.
- **JUnits:** Wrote JUnit test cases for microservices used by Fastenal website with 95% method coverage.
- Frameworks/Tools: **JavaScript, ReactJS, Java, Spring Boot, SQL, MongoDB, Microservices**

### Adobe

SOFTWARE ENGINEER INTERN

May 2022 - July 2022

- Worked in the pre-sales technical team on a demo builder utility.
- Contributed to multiple UI features for software solutions provided by Adobe to various organizations.
- Frameworks/Tools: **AngularJs, JavaScript, React Native.**

### Careerboat (previously Starvic)

FRONT-END DEVELOPER INTERN

Nov 2021 - Dec 2021

- Worked on the core product titled 'AI Based Career Development Platform' aimed to provide individual based career roadmaps and build job oriented profiles for users.
- Frameworks/Tools: **JavaScript, ReactJS, NextJS.**

## EDUCATION

**Birla Institute of Technology, Mesra (2019 - 2023)**

CGPA 8.77

B. Tech in Computer Science

## SKILLS

Data Structures & Algorithms  
C++  
Java  
Spring Boot

Microfrontend  
JavaScript  
ReactJs, Redux, Nextjs  
Vue, Vuex, Nuxtjs

Microservices  
DBMS, SQL  
MongoDB  
Liquibase, Terraform

Single Page Applications  
REST API  
Version Control