Rushil Shah

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EDUCATION

Master of Science in Software Engineering | San Jose State University, California - GPA: 3.72

Aug 2023

Bachelor of Technology in ICT | Ahmedabad University, India - GPA: 3.58

May 2021

Relevant Works: Data Structures and Algorithms, Object-Oriented Programming, Cloud and Software Enterprise platforms

SKILLS

Languages: JavaScript, TypeScript, Java, Ruby, Python, SQL, Elixir, C/C++, HTML, CSS, Linux

Technologies: NodeJS, React, GRPC, Microservices, REST, GraphQL, Spring, GIT, AWS(SQS, SNS), Kafka, CI/CD

Soft Skills: Effective Communication, Team Collaboration, Leadership

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEERING INTERN (Full-stack) | PROCURE NETWORKS

Sep 2022 - Present

- Reduced latency by 22-25% by creating a lookup aggregator for optimized search across inventory using a NoSQL cache database backend, custom hooks with React Typescript, and Graphql.
- Attained a 40% increase in search and access speed across all products by engineering data pipelines to normalize input data structures from different vendors into one standard mapping using hashmaps, and stored them in Elasticsearch
- Engineered **Node.js** & **gRPC** solution in a **Microservice** architecture with **Kafka** & **MongoDB** for real-time sorting of NoSQL documents based on exterior fields, ensuring real-time synchronized updates.

SOFTWARE ENGINEERING INTERN | INFLUXDATA (General Marketplace Simulator)

Jun 2022 - Aug 2022

- Designed a **Queuing and Notification service** to send user-registration messages to local queues, running in a Docker container. This initiative led to a local simulator of **AWS Marketplace** responsible for onboarding **70%** of users
- Conceptualized the architecture in **Elixir** to send notifications dynamically and poll local queues at regular intervals, thus duplicating **AWS SNS** and **SQS** services locally, by setting up a local queue environment using **RabbitMQ**

SOFTWARE DEVELOPER PRODUCT INTERN (Full-stack) | SHIPMNTS

Dec 2020 - Jun 2021

- Implemented **Subscription based** APIs to deliver **live** tracking data of containers, by using a **queue-based backend** architecture to delegate large asynchronous tasks of data fetching to several queues improving performance by **30%**
- Programmed **Cron Jobs** in **Nest Typescript** and **React** to asynchronously fetch and update container data at regular intervals, resulting in **50%** less API consumption by adjusting time intervals at runtime based on previous tracking data
- Revamped user convenience by developing a Gmail Plugin using **JavaScript** and **REST** to allow file uploads and job initiation from the Gmail inbox, and Google scope rules to access **metadata** including files attached, subject, and body.

WEB DEVELOPER INTERN (Full-stack) | TAASHA TECHNOLOGIES

Jun 2020 - Sep 2020

- Built a search box using **Java Spring Boot** and **Angular TypeScript** in an e-commerce website, giving search and access to more than **20,000** products stored in a centralized inventory of **relational database**
- Orchestrated database design to optimize search filters to improve latency by 30% by distributing products in categories and sub-categories, giving a tree-like data structure, making data less redundant, and writing efficient SQL queries

PROJECTS

User Authentication Module (Link): React | NodeJS | React Hooks | Javascript

Nov 2022 - Dec 2022

• Developed and released **open-source React** components for developers to inject Login, Signup, and Protected URL services into any project, reducing development time by **20-25%**

Autonomous Rental System: Mongodb | React | NodeJS | Carla Simulation | Python

Sep 2021 - Nov 2021

- Developed a React/Node ExpressJS web portal for renting autonomous cars using Carla simulator on AWS EC2.
- Employed database row-level multi-tenancy architecture to enable horizontal scalability for users and roles using **AWS RDS**. Enabled sharing of a single application instance among multiple tenants, resulting in increased efficiency

Student Management System: Spring Boot | Angular | Typescript | Java

Mar 2020 - May 2020

- Created a platform using Java for students to enroll in courses and for teachers to offer classes, evaluate, and grade students
- Utilized **Spring Boot** annotations to implement and execute SQL queries, controllers to map API requests from clients, and introduced **dependency injection** and service-based principles for data exchange between components