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 ENGINEER (Full-stack) | PROCURE NETWORKS **Sep 2022 - Present**

- Reduced latency by **22-25%** by creating a **lookup aggregator** that stores frequently access data for optimized search across inventory using a **MongoDB** cache database, 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** consumer in a **Microservice** architecture that updates **MongoDB** documents in real-time when **Kafka** producer triggers an update event, resulting in sorting of exterior fields in a **NoSQL** document.
- Developed backend API using **Node.js** and **Elasticsearch** for a Chrome extension, facilitating comparison pricing on products from partner merchants based on the products listed on the current web page.

SOFTWARE ENGINEER 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 (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, job initiation from the Gmail inbox, and Google scope rules to access **metadata** including files attached, subject, and body.
- Developed an **Email notification** system in **Ruby on Rails** and **Javascript** aiding clients to send emails having subject, content, and attachments, pre-filled by the system, using **AWS Simple Email Service** and **PostgreSQL** to store templates

WEB DEVELOPER INTERN (Full-stack) | TAASHA TECHNOLOGIES **Jun 2020 - Sep 2020**

- Accomplished the development of a search feature for an e-commerce website, leveraging **Java Spring Boot** and **Angular TypeScript** to provide search and access to a centralized inventory of over **20,000** products.
- Led the optimization of search filters and latency reduction efforts in **PostgreSQL** by implementing a hierarchical data structure for products and efficient **SQL** queries to minimize redundancy, resulting in a **30%** improvement in performance.

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%**

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