Rushil Shah

shahrushil1999@gmail.com | +1 (408) 472-9487 | San Jose, CA | Linkedin | GitHub | Medium

SUMMARY

Results-driven Full-stack Software Developer with 3 years of expertise in reducing latency, optimizing data systems, and implementing efficient architectures. Strong foundation in data structures, algorithms, and problem-solving and relevant tech stack

EDUCATION

Master of Science in Software Engineering | San Jose State University, California **- GPA: 3.81/4**   **Aug 2023**
Bachelor of Technology in ICT | Ahmedabad University, India **- GPA: 3.58/4**   **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, Springboot, GIT, AWS(SQS, SNS), Kafka, CI/CD
Soft Skills: Effective Communication, Team Collaboration, Leadership

PROFESSIONAL EXPERIENCE

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

- Reduced latency by **22-25%** by creating a **lookup aggregator** service that stores frequently accessed data for optimized search in a cache database, using **MongdoDB**, custom hooks with **React Typescript**, and **Graphql**.
- Attained a **40%** increase in search and access across all products by engineering data pipelines to normalize input data 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, to enable sorting of exterior fields in a **NoSQL** document.

SOFTWARE ENGINEERING INTERN | INFLUXDATA (General Marketplace Simulator)   **May 2022 - Aug 2022**

- Designed a **Queuing and Notification service** to send user-registration messages to local queues, running in a Docker container. This led to a local simulator of **AWS Marketplace** responsible for onboarding **70%** of company users
- Conceptualized and implemented the architecture to duplicate **AWS SNS** and **SQS** services locally in **Elixir**, by sending notifications at run time and polling data queues at regular intervals, in a local 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
- Implemented an **Email notification** system in **Ruby on Rails** and **Javascript** aiding clients to send emails having content, and attachments, pre-filled by the system, using **AWS Simple Email Service** and **PostgreSQL** to store templates

SOFTWARE DEVELOPER (Full-stack) | TAASHA TECHNOLOGIES   **Jan 2020 - Dec 2020**

- Developed an e-commerce application, in **Java Spring Boot** and **Angular TypeScript** using a microservice architecture
- 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.
- Improved scalability and responsiveness by optimizing database interactions, and implementing caching mechanisms using **Redis** and **Spring caching annotations** for a database of more than **20,000** inventory products
- Enhanced data integrity and system stability by using **Spring Security** and implementing error handling and exception management strategies in the **REST API**

PROJECTS

Picture-To-Product: Python | NodeJS | React Hooks | Javascript   **Nov 2022 - Dec 2022**

- Developed an image classification project using **Convolutional Neural Networks** (CNN) machine learning model to accurately classify products based on images
- Implemented data pipeline and API integration to seamlessly pass classified product data to the service, enhancing the user experience and enabling effective product search