Rushil Shah

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SUMMARY

Results-driven Full-stack Software Developer with 3 years of experience in building robust applications, optimizing data systems, and engineering efficient architectures. Strong foundation in data structures, algorithms, and problem-solving in various 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**

- Succeded in reducing latency by **22-25%** by creating a **lookup aggregator** service to store frequently accessed data for faster search in a cache database, using **MongdoDB**, custom hooks with **React Typescript**, and **Graphql**
- Accomplished 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**
- Enabled sorting of exterior fields in a **NoSQL** document by engineering **Node.js** & **gRPC** consumer in a **Microservice** architecture that updates **MongoDB** documents in real-time when **Kafka** producer triggers an update event

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, 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 data at regular intervals, resulting in **50%** less API consumption by adjusting time intervals at runtime based on previous tracking data
- Executed 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**

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, 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 **REST APIs**

PROJECTS

Picture-To-Product: Python | NodeJS | React Hooks | Javascript **Feb 2023 - May 2023**

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