

Rushil Shah

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EDUCATION

Master of Science in Computer Engineering | San Jose State University, California - **GPA: 3.81/4** **Aug 2023**
Bachelor of Technology in Computer Engineering | Ahmedabad University, India - **GPA: 3.58/4** **May 2021**

Relevant Works: Software Development and Management, Data Analysis(Hadoop), Cloud and Object Oriented Programming

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER (Full-stack) | PROCURE NETWORKS **Sep 2022 - Aug 2023**

- Achieved a **22-25%** latency reduction by creating a lookup aggregator service to collect data and store it in centralized storage in a SaaS platform using **Typescript, React**, and **GraphQL**, allowing faster data access
- Accomplished a **40%** increase in search and access across all products by engineering data pipelines to normalize input data from different batches into one standard mapping using **hashmaps**, and stored in **Elasticsearch**
- Enabled sorting of exterior fields in a **NoSQL** database by engineering a **JavaScript** event-driven consumer, using **gRPC** to update **MongoDB** documents in real time when the **Kafka** producer triggers an update event

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

- Designed a **Notification service** to simulate the **AWS Marketplace** for testing the onboarding of **70%** of company users, using the functional programming in **Elixir Phoenix**, to send messages to local queues in **Docker**
- Conceptualized and implemented the architecture to duplicate **AWS SNS** and **SQS** services locally in **Elixir**, by sending notifications at run time and polling message queues at regular intervals, in a local environment using **RabbitMQ**

SOFTWARE ENGINEER (Full-stack) | SHIPMNTS **Dec 2020 - Jun 2021**

- Improved performance by **30%** in a Subscription service that delivers tracking data in real-time, by using the **queueing architecture** in **Nest Typescript** to delegate large asynchronous tasks to different queues
- Achieved a **50%** reduction in API consumption in a subscription service by programming **Cron Jobs** in **JavaScript** to fetch and update data asynchronously, and adjusting cron time intervals at runtime based on previous tracking data
- Led cross-functional teams to create technical designs for software applications and perform activities such as managing integrations, system-level configurations, managing infrastructure required for ongoing development and releases

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

- Developed an E-commerce application for over **20000** products, using **Python Django, Angular**, and **RESTful APIs** in a microservice architecture, which included services like catalog, user authentication, order processing, etc
- Led the optimization of search filters and latency reduction efforts, resulting in a **30%** improvement in performance using **PostgreSQL** and **Redis** by implementing a hierarchical data structure for products and writing efficient **SQL** queries
- Oversaw the entire SDLC of applications by implementing **CI/CD** pipelines, leading peer reviews of specifications, designs, and code, and executing integration testing, all in accordance with **Agile** principles

SKILLS

Languages: Java, Python, Typescript, Javascript, C++, SQL, Elixir, HTML5, CSS, Linux, Golang

Technologies: Spring, Message Queues, React.js, Nest, Microservices, REST, InfluxDB, AWS(SQS, SNS), Kafka, Angular

PROJECTS

Picture-To-Product: Python | NodeJS | React Hooks | Javascript | EC2 **Feb 2023 - May 2023**

- Developed an image classification project using **Convolutional Neural Networks (CNN)** machine learning model to classify products based on images accurately
- Constructed data pipelines and API integration in **Python Django** and **AWS EC2** to seamlessly pass product data to the classification service, enhancing the user experience and enabling effective product search

User Authentication Module ([Link](#)): React | Node JS | React Hooks | Typescript **Jan 2023 - Mar 2023**

- Engineered and released **open-source React** components in **Typescript** to reduce development time by **20-30%**
- Designed to inject Login, Signup, and Protected URL services into any **React** project with any state management library