# SWAPNIL SHARMA

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## Summary

Full-stack software engineer and system architect with **4+ years** of experience in **Golang, Node.js, React.js,** and **Agile methodologies**. Known for innovation and customer-centric solutions, with a strong advocacy for accessibility and tech for good. Skilled in leading cross-functional teams, achieving objectives, and optimizing software. Active community organizer, conference participant, and open-source contributor.

## Work Experience

**CaratLane** ( A Titan Company ) **Bengaluru, Karnataka**
**Senior Software Engineer** Aug 2022 – Current

### Projects

**@caratlane/sqc Package Development** **https://www.npmjs.com/package/@caratlane/sqc**

- **Open Source Package Development**: Single handedly developed the @caratlane/sqc open-source package to optimize database queries and enhance system architecture, enabling seamless handling of increased traffic and improving overall performance.

**Pricing Engine & Data Sync Optimization**

- **Jewelry Pricing Engine**: Led the team in architecting and implementing a pricing engine for calculating jewelry product prices and barcodes. Efficiently managed multiple components like metals and stones.
- **ERP Data Sync**: Designed and optimized system architecture for syncing data from the ERP system, leading to a significant reduction in execution time and improved processing efficiency.
- **Go Worker Pool for Inventory Migration**: Developed a worker pool package in Go to optimize cross-account inventory migration. Reduced execution time from **13 minutes to just 1 minute** by improving task parallelization and resource management

**Centralized Communication Preferences Management**

- **DND & Email Preferences System**: Designed and implemented a centralized "Do Not Disturb" (DND) and email preference management system for CaratLane. Consolidated customer communication preferences from multiple databases and vendor systems into a single interface.
- **Secure Unsubscribe**: Developed secure unsubscribe functionality using hashed tokens and an API-driven process for updating user opt-in statuses, ensuring seamless integration and efficient handling of customer preferences..

**Customer Engagement Platform**

- Built a behavioral pop-up system for the CaratLane website with a team of three, handling up to **1.5M daily visitors**.
- Implemented user segmentation (e.g., first-time vs. returning users) and A/B testing to optimize engagement.
- Utilized technologies including **Kinesis, RabbitMQ, RudderStack, AWS EMR, Java (backend), ReactJS,** and **WebSockets** for real-time, scalable solutions.

**Serverless Product Image Architecture**

- **AWS S3 & Lambda Optimization**: Optimized the product image architecture by implementing a serverless solution using AWS S3 and Lambda. This reduced storage costs by 80% and decreased image upload time by 20%.

**Accenture Pune, Maharashtra**
**Software Engineer** Nov 2020 – July 2022

### Projects

**Microservices for Orders and Payments**

- Worked on multiple microservices within the Oracle Fusion system, focusing on streamlining order and payment processes.

**Automated Log Reporting System**

- Built an automated script to fetch logs from multiple applications, clusters, and servers, and generated detailed performance reports. Also created a frontend page to display these reports, making it easier for teams to access and analyze data. This was an internal project.

**ERP System Integrations**

- Developed integrations and connectors to manage product inventory across the ERP system, ensuring smooth operations and accurate data flow.

**Automation Tools Development**

- Developed and deployed automation tools to reduce project costs and increase overall efficiency. These tools automated repetitive tasks, minimizing manual intervention and speeding up development cycles.

# Technical Skills

**Programming Languages**: Golang, JavaScript/ES6/ES2017, Typescript, Java SE, WebGL, XHTML, XML
**Frameworks**: Sarama, Gorilla mux, ReactJS, Redux, Gin, XORM, AJAX, Spring ( Boot, REST, MVC, JPA ), Webpack, Grunt
**Hands-on Experience**:
- Git, NPM, AWS (Compute, Storage, Network & Content Delivery), RabbitMQ, Kafka, Amazon Kinesis
- GitHub, Netlify, Postman, SOAP UI, Dynatrace, Splunk, NGINX

Experience with various database engine technologies such as **Oracle**, **MySQL**, **MongoDB**
Experience developing wireframes, UX flows, mock-ups, and prototypes using Adobe XD
Experienced with Go-Routines, channels, workgroup, MUTEX

# Certifications

Accenture Certified MERN Stack Developer
Accenture Certified Spring Boot Developer
Accenture Java SE Certificate

# Education

**Bachelor of Engineering** Jul 2020
72.2% (7.6 CGPA)
Madhav Institute of Technology and Science, Gwalior

# Publications

**GRUB: A Worker Pool in Golang**

https://pkg.go.dev/github.com/maybeswapnil/grub

**Product Image Serverless Architecture Using Amazon S3**

https://inside.caratlane.com/product-image-serverless-architecture-using-amazon-s3-8b00c6ae4fb7

**Sequelize Query Commenter**

https://inside.caratlane.com/sequelize-query-commenter-b9829f92c21

**@caratlane/sqc**
https://www.npmjs.com/package/@caratlane/sqc