

SWAPNIL SHARMA

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Full-stack software engineer and system architect with experience in **Golang, Node.js, React.js, Python**, 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

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

@caratlane/sqc Package Development

- Open Source Package Development:** 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..

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%

Software Engineer Nov 2020 – July 2022
Accenture Pune, Maharashtra

Server and Database Management

- Server & VPC Administration:** Administered and maintained the agency's server infrastructure and Virtual Private Cloud (VPC), ensuring high availability, reliability, and optimal performance across environments.
- Database Management:** Managed and optimized databases, focusing on configuration, performance tuning, and security to support application functionality and maintain data integrity.

Workflow Optimization

- Frontend Development Efficiency:** Streamlined front-end development workflows by implementing best practices and optimizing existing processes, significantly enhancing team productivity.
- Contribution to Open Source:** Actively contributed to both private and open-source projects, improving development tools, libraries, and processes to support team efficiency.

Automation Tools Development

- Automation for Project Efficiency:** 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.

Embedded Device Solutions

- Research & Web App Development:** Conducted in-depth research to identify optimal solutions for web applications designed for embedded devices. Developed RESTful APIs to facilitate smooth communication and integration, ensuring the web apps performed effectively within embedded device constraints.

Backend Development

- Tech Stack:** Developed robust backend systems using **Java Spring, MySQL, RabbitMQ, HAProxy**, and **Nginx**, ensuring scalability, fault tolerance, and high-performance data processing.

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 Java SE Certificate

Accenture Certified Spring Boot Developer

Education

Bachelor of Engineering Jul 202072.2% (7.6 CGPA)

Madhav Institute of Technology and Science, Gwalior

10+2 Apr 201684%

Chavara Vidyapeeth Narsinghpur

Physics, Chemistry, Mathematics, Computer Science (Language C++)