

Siman Shrestha

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Software Engineer (Full Stack)

Software Engineer skilled in building high-performance backend services and frontend interfaces. Proven expertise in event-driven architectures and microservices for millions of users. Proficient in using observability tools and cloud technologies for performance and reliability. Experienced in feature design, code review, and production monitoring.

TECHNICAL COMPETENCIES

Languages & Frameworks: TypeScript, JavaScript, Python, Java

Databases: PostgreSQL, MySQL, MongoDB, Redis

Tools & Technologies: React, React Native, Angular, NestJS, Node.js, Spring Boot, Kafka, Linux, Docker, Kubernetes, Sumo Logic, DataDog, Sentry, Bull Queue, GraphQL, REST, Swagger, Git

EXPERIENCE

Hinge Health | Remote

Aug 2023 – Apr 2024

Software Engineer II

Supported member data platform at the leading digital musculoskeletal therapy clinic while working with a remote team.

- Achieved a 40% reduction in customer registration latency and eliminated 1 million redundant HTTP calls daily by leading a project to decouple microservice architecture.
- Reduced latency for patient health data updates by 40% while saving \$600 per month on AWS costs by leading a team to implement envelope encryption on Kafka messages.
- Maintained REST-based microservices handling sensitive data for 30 million users with TypeScript, NestJS, and PostgreSQL. Scaled services using Kafka (AWS MSK), Redis (AWS ElastiCache), Docker, and Kubernetes.

Visa | Austin, TX

Jan 2022 – Aug 2023

Senior Fullstack Software Engineer - Observability

Expanded observability capabilities for operations and infrastructure teams across the organization.

- Improved web service resource efficiency by 1000x and implemented a real-time metrics dashboard by caching metrics in Redis and broadcasting over WebSockets.
- Enhanced observability by directing the deployment of Grafana Enterprise on RHEL 7 web servers.
- Maintained an in-house observability web application built with React, Node.js, GraphQL, MongoDB, and MySQL.
- Mentored interns and provided technical guidance for summer projects.

Visa | Austin, TX

Oct 2020 – Jan 2022

Fullstack Software Engineer – Middleware

Developed a platform for Visa engineers to schedule asynchronous jobs.

- Streamlined routine jobs to save engineers 10 hours per week by automating asynchronous job executions with a web application using Angular, D3, Java Spring, Python, Kafka, Quartz, and MySQL.
- Improved container deployment experience by designing and building a responsive UI with Figma and Angular.

Frogslayer | College Station, TX

Sep 2019 – May 2020

Software Engineer

Maintained a medical record system web application for a chain of urgent care centers.

- Enriched company data for urgent care facilities by developing a physician performance tracking system using Angular, MariaDB, and Django (Python).
- Designed features in Adobe XD, presented designs to stakeholders and implemented them in Angular.

EDUCATION

Texas A&M University, College Station, TX

Aug 2016 – May 2020

Bachelor of Science in Computer Science, Minor in Graphic Design

LEADERSHIP

- Communications and Engagement Chair, Visa Young Professionals ERG

Dec 2020 – Aug 2023