Siman Shrestha

Software Engineer

siman4457@gmail.com | 469- 323-7640 | Austin, Texas | LinkedIn | Portfolio

Experienced in building and maintaining backend services, and frontend web interfaces. Strong skills in leveraging API development, microservices, and cloud infrastructure to support millions of users. Adept at designing and building intuitive user interfaces with industry-standard frameworks.

TECHNICAL COMPETENCIES

Languages & Frameworks: Python, Java, TypeScript, JavaScript, Go, React, Angular, NestJS, Node.js, Spring Boot
Databases: PostgreSQL, MySQL, MongoDB, Redis
Technologies: Docker, Kubernetes, LangChain, Retrieval Augmented Generation, GCP, AWS, GraphQL, REST, Messaging Queues, Linux, Git, Microservices, CI/CD, Integration and Unit Testing

EXPERIENCE

Software Engineer II   Aug 2023 – June 2024
Hinge Health | Austin, TX - Remote
- Modernized sensitive data handling for 30 million patients at a leading digital physical therapy clinic by developing a microservice with TypeScript, NestJS, PostgreSQL, Kafka, Redis, and Kubernetes
- Enhanced user experience by leading a project to decouple the microservice architecture, resulting in a 40% reduction in customer registration latency.
- Led a team to implement envelope encryption for Kafka messages, reducing health data ingestion latency by 40% while securing sensitive patient data.
- Set team integration testing standards by restructuring testing strategy to eliminate flaky tests and stabilize CI/CD.

Senior Fullstack Software Engineer   Jan 2022 – Aug 2023
Visa | Austin, TX
- Developed a highly available real-time API health monitoring dashboard for production metrics using React, Node.js, Redis, and GraphQL, utilized daily by over 500+ product reliability engineers.
- Expanded payment API health observability by leading the deployment of Grafana Enterprise.
- Enhanced datastore availability by reducing web server load by 1000x through caching metrics in Redis and broadcasting via WebSockets with GraphQL subscriptions.
- Maintained an in-house observability web application utilizing React, Node.js, GraphQL, MongoDB, and MySQL.
- Mentored interns by designing their summer projects and offering technical guidance.

Fullstack Software Engineer   Oct 2020 – Jan 2022
Visa | Austin, TX
- Saved engineers 10 hours per week by automating over 300+ scheduled job executions with a web application built using Angular, Java Spring Boot, Python, Kafka, Quartz, and MySQL.
- Improved container deployment experience by designing and building a responsive UI with Figma and Angular.

Software Engineer   Sep 2019 – May 2020
Frogslayer | College Station, TX
- 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.
- Designed UI features in Adobe XD, presented to stakeholders, and implemented them in Angular.

CERTIFICATIONS

Databricks Academy Accreditation - Generative AI Fundamentals   May 2024

EDUCATION

Texas A&M University, College Station, TX   May 2020
Bachelor of Science in Computer Science, Minor in Visualization