Siman Shrestha

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

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Software Engineer

Experienced in building and maintaining high-performance, scalable backend services, and frontend web interfaces. Strong skills in leveraging API development, microservices, and event driven architectures to support millions of users. Adept at designing and building responsive user interfaces with industry-standard frameworks. Proficient in using observability tools and cloud technologies for performance and reliability.

API Design | Microservice Architecture | Distributed Systems | Observability | Event-Driven Architecture
Continuous Integration/Continuous Delivery (CI/CD) | Integration and Unit Testing | Agile Development

TECHNICAL COMPETENCIES

Languages & Frameworks: Python, Java, TypeScript, JavaScript, Go, React, Angular, NestJS, Node.js, Spring Boot
Databases: PostgreSQL, MySQL, MongoDB, Redis
Technologies: GraphQL, REST, Kafka, Linux, Docker, Kubernetes, Sumo Logic, DataDog, Sentry, Bull Queue, Git
UI/UX: Figma, D3, Adobe XD, Adobe Illustrator, Adobe Premiere Pro

EXPERIENCE

Hinge Health | Austin, TX - Remote   Aug 2023 – June 2024
Software Engineer II
Supported the member data platform at the leading digital musculoskeletal therapy clinic.
- Maintained REST-based microservices handling sensitive data for 30 million users with TypeScript, NestJS, PostgreSQL, Kafka, Redis, Kubernetes.
- Achieved a 40% reduction in customer registration latency by leading a project to decouple microservice architecture.
- Reduced latency for updating patient health data by 40% while saving $1000 per month on AWS KMS costs by leading a team to implement envelope encryption on Kafka messages.
- Set team integration testing standards by restructuring testing strategy to eliminate flaky tests and stabilize CI/CD.

Visa | Austin, TX   Jan 2022 – Aug 2023
Senior Fullstack Software Engineer - Observability
Expanded observability capabilities for operations and infrastructure teams across the organization.
- Implemented a highly available real-time API health monitoring dashboard for production API metrics with React, Node.js, Redis, and GraphQL. Used daily by Product Reliability Engineering.
- Enhanced datastore availability by reducing load 1000x (1700 GB to 17 GB per day) by caching metrics in Redis and broadcasting over WebSockets with GraphQL subscriptions.
- Enhanced observability of payment processing APIs by directing deployment of Grafana Enterprise within a distributed architecture
- Maintained an in-house observability web application built with React, Node.js, GraphQL, MongoDB, and MySQL.
- Mentored interns by designing their summer projects and offering technical guidance.

Visa | Austin, TX   Oct 2020 – Jan 2022
Fullstack Software Engineer – Middleware
Developed a platform for engineers to schedule asynchronous jobs.
- Saved engineers 10 hours of work every week, by automating 300+ weekly scheduled job executions through a web application built with Angular, Java Spring Boot, 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.
- Designed 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

LEADERSHIP

- Communications and Engagement Chair, Visa Young Professionals ERG   Dec 2020 – Aug 2023
  - Spoke at informational and social events to promote career development and networking among 500 members.