Siman Shrestha

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

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Software Engineer

Skilled Software Engineer with 4 years of experience specializing in building backend services and web user interfaces. Proven track record of optimizing API response times, improving code quality, and delivering critical features. Experienced in designing APIs and architecting scalable microservice architectures that support millions of users. Adept at designing and building intuitive user interfaces with industry-standard frameworks. Proficient in capturing metrics and utilizing observability tools for debugging, monitoring, and alerting, ensuring system reliability and availability.

Fullstack Web Development | Microservices Architecture | Observability | Integration and Unit Testing | AWS
Data Modeling | Decomposing Monolithic Architectures | API Design | API Security | Caching | Event-Driven Architecture
Continuous Integration/Continuous Delivery (CI/CD) | User Interface Prototyping | Agile Development | Communication

TECHNICAL COMPETENCIES

Languages & Frameworks: TypeScript, JavaScript, Python, Java, C++, NestJS, Node.js, Express, React, Angular, Django, Spring Boot
Databases: PostgreSQL, MySQL, MongoDB, Redis
Tools & Technologies: Git, Kafka, GraphQL, REST, Sumo Logic, DataDog, Sentry, Bull Queue, Grafana, Linux, Docker, Kubernetes, Apache Airflow
AI: GitHub Copilot, Chat GPT
UI/UX: D3, Figma, Adobe XD, Adobe Illustrator, Adobe Premiere Pro

EXPERIENCE

Hinge Health | Austin, TX   Aug 2023 – Apr 2024
Software Engineer II
Maintained critical REST-based microservices handling PII data for 30 million users, collaborating within a remote, distributed team at the forefront of musculoskeletal therapy in health tech innovation.
- Led a project that cut event ingestion processing time by 40%, eliminated 1 million HTTP calls daily, and fortified security by implementing AWS KMS encryption for Kafka messages.
- Supported decomposition of a monolithic Rails architecture into a microservice to process and serve PII data for 30 million users. Utilized TypeScript, NestJS, and PostgreSQL to develop REST API endpoints.
- Led a hackathon team and delivered a production-ready proof-of-concept for envelope encryption of Kafka messages, eliminating 3 million HTTP calls daily across the organization and reducing costs by $500 a month.
- Leveraged observability tools such as Sumo Logic, DataDog, and Sentry for debugging, alerting, and monitoring.
- Elevated code quality and deployment stability through a comprehensive overhaul of integration test suites.
- Participated in team rituals such as code reviews, technical design reviews, retrospectives, and sprint planning.
- Prioritize quarterly projects with teams across functions and determine effort estimations.
- Fulfilled on-call duties to ensure system uptime and address critical issues.

Visa | Austin, TX   Jan 2022 – Aug 2023
Senior Fullstack Software Engineer - Observability
Expanded observability capabilities for operations and infrastructure teams across the org in a remote, distributed team.
- Implemented real-time, API health monitoring dashboard for critical production API metrics with React, Node.js, Redis, and GraphQL. Used daily by the Product Reliability Engineering team.
- Designed a self-service platform to automate updates for a real-time monitoring dashboard. Cut down workload for the observability team by 10 hours per month.
- Optimized application load from 10 MB to 10 KB per request (100% reduction) by caching metrics in Redis and using WebSockets to broadcast data to subscribers.
- Enabled 500+ engineers to generate key metrics and alerts for app servers by maintaining an in-house Observability web application built with React, Node (Express), GraphQL, MongoDB, and MySQL.
- Deployed Grafana with an improved authentication architecture in a distributed environment, used by 1000 engineers.
- 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.
- Automated remote job execution on targeted private servers saving engineers 10 hours per week. Accomplished by building a web application with Angular, D3, Java Spring Boot, Python, Kafka, Quartz, and MySQL.
- Implemented real-time log output for remote job executions.
- Built a responsive UI with Angular for a container deployment self-service platform.

Frogslayer | College Station   Sep 2019 – May 2020
Junior Software Engineer
Maintained a cloud-based medical record system web application as the primary engineer.
- Delivered features for a web application utilized daily by 100+ medical personnel across 3 distinct urgent care facilities. Constructed with Angular, MariaDB, and Django (Python).
- Designed UI components in Adobe XD, presented designs to stakeholders and implemented 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
- Lead Communications and Engagement Chair, Visa Young Professionals ERG   Dec 2020 – Aug 2023
  - Speaker for informational and social events to encourage networking amongst 500 members.