Evan Sunde | Senior Software Engineer | Product & Reliability

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Executive Summary

Product-minded Software Engineer with a proven history of building scalable, reliable platforms that solve complex business problems. Expert in bridging the gap between technical requirements and business goals, delivering high-impact solutions for HR tech, telemedicine, and AI sectors. Demonstrated leadership in improving engineering team productivity, automating operations to reduce costs, and ensuring strict data security and compliance.

Strategic Competencies

- **Engineering Leadership:** System Architecture, Technical Roadmap Planning, Agile/Scrum, Mentorship.
- **Product Delivery:** Rapid Prototyping, Feature Lifecycle Management, User-Centric Design, Scalable API Design.
- **Operational Excellence:** Cloud Infrastructure Cost Optimization, Automated Deployment (CI/CD), Security Compliance.

Technical Skills

- **Languages:** Go (Golang), Python, TypeScript/Node.js, C++, SQL, GraphQL.
- **Backend Architecture:** Microservices, GraphQL, API Gateway Pattern, REST, Redis, RBAC (Role-Based Access Control).
- **Cloud & Infrastructure:** AWS, Kubernetes (K3s), Docker, Kustomize, Traefik, Nginx.
- **Security & DevOps:** HashiCorp Vault, Git, Linux, RBAC Systems, CI/CD Pipelines.

Professional Experience

Nephara **Kathmandu**
Lead Software Engineer *2023 – Present*

- **Platform Scalability:** Architected the core backend for a comprehensive HR & Payroll platform using **Go microservices**. Designed the system to support rapid growth, handling thousands of concurrent users and 15+ distinct business functions via a custom **GraphQL gateway**.
- **Operational Efficiency:** Modernized the infrastructure by orchestrating containerized deployments with **K3s** and **Traefik**. This automated workflow, managed via **Kustomize**, reduced release times by significant margins and enabled seamless environment parity.
- **Data Security & Compliance:** Led security initiatives by integrating **HashiCorp Vault** for automated secret rotation. Implemented granular **RBAC** and multi-tenant authentication patterns, ensuring strict privacy compliance for enterprise clients.
- **Financial Accuracy:** Engineered a fault-tolerant financial calculation engine for payroll using **atomic SQL transactions** (NoORM). This ensured 100% accuracy in high-stakes financial data processing, preventing corruption during system failures.
- **Team Productivity:** Created a suite of internal shared libraries in **Go** (Auth Middleware, Logger, AWS Utils) that standardized development. This initiative reduced code duplication and accelerated the delivery of new product modules.
- **AI Innovation:** Integrated agentic AI into business workflows using **Python**, enabling the automation of complex administrative tasks while strictly adhering to user permission levels.

Self-Employed **Remote**
Freelance Software Engineer *2022 – 2023*

- **AI-Driven Mental Health Tool:** Developed a voice-responsive therapy agent on **AWS**. Leveraged advanced NLP and emotion recognition algorithms to create an empathetic user experience, demonstrating the capability to build complex, human-centric AI products.
- **Telemedicine Market Expansion:** Built a secure video consultation platform using **TypeScript, Node.js, and WebRTC**. Delivered a complete solution—from booking to HD video calls—that enabled healthcare providers to expand their service reach internationally.

Notable Technical Achievements

Personal Project

Real-Time AI Phone Agent *Voice AI & Telephony*

- **Real-Time Architecture:** Built a low-latency **Python** server integrating Voice AI with **Twilio VoIP** to enable natural, 2-way phone conversations via direct dialing.
- **Human-Like Fluency:** The AI could perform fluid, natural 2-way phone conversations. The system achieves human-like speech patterns and sustains complex, context-aware dialogues via direct dialing.
- **High-Concurrency Performance:** Optimized the architecture to handle multiple simultaneous calls on a single instance while maintaining unique conversation contexts and ultra-low latency response times.
- **Live Demo: Watch the project video on LinkedIn**

Personal Project

High-Performance Hardware Control *Performance Engineering*

- **Resource Optimization:** Reverse-engineered hardware protocols to build a C++ lighting engine that runs on less than 0.5% CPU, demonstrating a deep understanding of low-level system efficiency.

Personal Project

AI-Powered Workflow Automation *Productivity Tools*

- **User Experience Improvement:** Developed a **computer vision** tool using MediaPipe that automates screen focus based on user attention, reducing physical strain and improving workflow efficiency for multi-monitor setups.

Education

Tribhuvan University **Kathmandu**

B.Sc. Computer Science and Information Technology (CSIT) *Expected 2026*

Currently in 3rd Year (5th Semester)