

# Kevin Frost, Software Engineering Leader

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Principal Software Engineer and Team Leader with extensive experience creating mission-critical distributed systems, leading cross-border teams, and shipping high-impact products across security, cloud, and applied/agentic AI. Strong AI-friendly hands-on coder in Go, Python, JS/TS, plus *any language* with GenAI support. Recent experience in full-stack app development (React, Expo, Tauri), serverless pipelines and IoT.

Exceptional communicator across functions, levels, media, cultures and languages.

Open to onsite, hybrid, or remote roles (SF Bay Area or Greater Los Angeles). **US Citizen.**

## Technical Skills

- Software Architecture – creative problem-solving for real-world business needs.
- Software Development – systems programming, full-stack, CLI, web/APIs, agentic AI.
- Database Design & Development – Postgres, MySQL, SQLite3, et al; vectors, PL, etc.
- Platform/DevOps – Linux, Docker, Kubernetes, infrastructure as code, observability.
- Cloud – AWS and GCP, portable architecture, serverless, cost optimization.
- IoT – data pipelines, MQTT, firmware integration, dashboard/controller apps.
- AI/LLMs – integration, agents, assistants, pipelines, visualization, user interfaces.
- Security – threat modeling, adversarial strategy, full stack security auditing.

## Leadership & Delivery

- Local and international remote team leadership; agile project management.
- Customer-facing technical engagements: documentation, forward-deployed, post-sales.
- Effective across executive leadership, product and sales, and engineering teams.

## Professional Experience

### Tonsai LLC, a Software Engineering Consultancy

Founder & CEO – 2022–present

- Delivered backend engineering and architecture for startups and enterprise clients.
- Shipped zero-to-one cross-platform and native full-stack apps with integrated AI features.
- Bootstrapped pre-seed startup prototypes (mobile, desktop, web apps; cloud backends).

#### Primary engagements:

*Purtec Inc – 2025–present*

*AWS architecture, data pipelines, IoT integrations, full-stack AWS-backed React Native app, strategic consulting, and other hats.*

*Tribeka (Stealth AI Startup) – 2025–2026*

*Built a cross-platform desktop AI application in Rust and Typescript with an LLM proxy backend.*

(continued)

**Primary consulting, continued:**

*Kumulus Technologies – 2024–2025*

*Built and deployed numerous custom backend and full-stack web apps for GPU data-center management (Imbue, Voltage Park). Observability hacking, firefighting, etc.*

*Filial AI (pre-seed) – 2023-2024*

*Cofounded a startup making a chatbot-centric system to improve quality of life and outcomes for Dementia patients and others experiencing cognitive decline. Shipped prototypes for investor demos. Not funded. :-)*

**Broadcom Inc.**

Technical Director – 2020–2021

- Provided technical leadership in an international team responsible for back-end systems.
- Led AWS-GCP migration and set direction for microservices and Perl-Python transition.
- Designed and implemented high-performance/serverless components in Go and Python.

Impact: Achieved systems readiness for 80% cost savings and improved hiring posture.

**Symantec Corporation**

Technical Director – 2016–2020

- Directed design and development for mission-critical anti-spam security systems.
- Managed modernization of legacy codebases and architecture migration to AWS.
- Oversaw full stack lifecycle of internal and customer-facing systems.

Impact: Delivered AWS applications (\$MM/mo cloud spend) without vendor lock-in, keeping customers safe in a period of rapidly escalating cyberattacks.

Senior Principal Software Engineer – 2010–2016

- Built high-throughput, high-availability backend services for millions of users.
- Enabled international team expansion by mentoring and scaling processes.

Impact: Expanded team in Asia, scaled product while Corporate went through restructuring.

Principal Software Engineer – 2006–2010

- Modernized web applications and introduced automated browser testing.
- Developed novel techniques to combat emerging PDF-based attacks.
- Streamlined database operations to support rapid feature delivery.

Impact: More than doubled web app feature velocity, defeated novel attacks, and helped retain \$MM/y Fortune-500 customers.

**Earlier career includes biotech product safety, digital music, and social networks.**

BA German Studies, CSU Chico. Native English, fluent German. US Citizen.