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## Summary

Senior Software Engineer with over 12 years of experience building scalable real-time communication systems and mobile/web infrastructure. Spent 9 years at Google as a core contributor and engineering leader on the Google Chat team, driving product growth from early stage to over 10x scale. Expert in cross-platform architecture, concurrency, and full-stack engineering. Passionate about applying AI/LLMs to solve complex engineering and user problems.

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## Employment

<b>Senior Software Engineer</b>	<b>Google</b> (Sunnyvale, CA)	<b>October 2016 – January 2026</b>
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### AI Innovation & Leadership

- **AI Prototypes:** Developed multiple full-stack AI prototypes using Firebase Studio and Antigravity, including a natural language CRM interface, a multimodal (video+audio) agent for e-commerce, and a Chat application that uses Gemini function calling.
- **AI Debugging Tools:** Built an AI-driven debugging tool using context-aware prompt engineering to diagnose crash reports.
- **Mentorship:** Managed 10 interns, with 7 returning as full-time engineers. Conducted 100+ interviews and served on hiring committees.
- **Awards:** Awarded 10+ peer bonuses and Gold Awards for contributions to multiplatform engineering and concurrency.

### Core Infrastructure & Architecture

- **Cache Invalidation Protocol:** Architected and implemented a revision-based cache invalidation protocol to resolve complex data integrity issues without requiring app upgrades, a solution subsequently adopted by major projects (threading, attachments).
- **Web on Shared Architecture:** Led core parts of the “Web on Shared” infrastructure initiative, migrating Google Chat Web to a shared data layer to unify logic across Android, iOS, and Web.
- **Kotlin Multiplatform (KMP):** Contributed to Kotlin Multiplatform efforts by identifying desired and incompatible code patterns and implementing 10+ regex-based static analysis checks to prevent regressions.
- **Concurrency & Stability:** Significantly reduced iOS crash rates by diagnosing complex concurrency issues and authoring comprehensive guidelines and precise regex-based static analysis checks on thread safety in the shared client data layer.

### Product Scale & Feature Growth

- **Scale & Growth:** Played a pivotal role in scaling the product over 10x, enabling “Guest Access” (cross-organization communication) and “Consumer Access” (free user support).
- **User Capabilities System:** Designed and implemented the “Chat User Capabilities” system, a centralized logic engine governing user permission across 20+ Chat features, adopted on both client and server.
- **Sync Reliability:** Resolved critical user-visible sync issues by enhancing the revisioned sync mechanism, ensuring data freshness.

<b>Software Engineer, Growth team</b>	<b>Coursera</b> (Mountain View, CA)	<b>January 2015 – September 2016</b>
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- Built key workflows (Home, Dashboard, Onboarding) and analyzed 100+ A/B tests.
- Developed SEO tools that achieved #2 rankings for terms like “machine learning” and “computer science”.

<b>Software Engineer</b>	<b>Palantir Technologies</b> (Palo Alto, CA)	<b>January 2014 – January 2015</b>
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- Re-architected a major product into a single-page application (SPA), significantly improving user experience.
- Built an internal analytics system to provide insights into user engagement.

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## Education

<b>Stanford, CA</b>	<b>Stanford University</b>	<b>2010 – 2014</b>
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- B.S.E. in Computer Science (conferred in January 2014)
- Awards: Frederick E. Terman Award (Top 5% of Engineering Majors)
- GPA: Major 4.1/4.3, Overall 4.0/4.3.

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## Certifications

- Deep Learning Specialization (Coursera / DeepLearning.AI)
- Machine Learning Specialization (Coursera / Stanford Online, DeepLearning.AI)

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## Skills

- **Languages:** Java, Python, Swift, Kotlin, Objective-C, JavaScript/TypeScript, SQL, C++
- **Technologies:** Gemini API, AI Agents, Flutter, React, Django, Next.js, Firebase, Tensorflow, PyTorch, Gemini CLI, Antigravity
- **Concepts:** Real-time Communication, Distributed Systems, Concurrency, Cross-Platform Development (KMP)