

Andrew Walsh

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Professional Summary

Skilled software engineer with expertise in the Software Development Life Cycle (SDLC), privacy domains, and scalability. Experience working cross-team, planning and as acting lead.

Technical Skills

- **AI Engineering:**
Agentic AI business domain and technical skill configuration development, automation, failure mode debugging, and performance tuning.
 - **Languages:**
C++ (8), Typescript (7), Python (9), Java (8), Kotlin (8), Go (6) with others available on request.
 - **Frameworks & IaaS:**
(Available upon request)
 - **SDLC Expertise:**
Requirements gathering, design documentation, team leadership, code standards, test coverage, deployment, and monitoring. Cross team work with PM, PgM, UX and standards working groups like security, privacy and business.
 - **Database Management:**
Experience with relational and hierarchical databases, with some low-level implementation.
 - **Paradigms:**
Procedural and declarative (including functional programming).
 - **Knowledge Areas:**
Privacy controls, trust and safety, software-defined networking (SDN) and modeling, user engagement, distributed systems, performance optimization, APIs, structural engineering, and financial systems.
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Professional Experience

Google Contributions

- Part of a working group to update the Google interview pipeline and integrate Agentic AI skills in the process.

- Readability mentor for code quality in Java and Kotlin.
- Interviewer for Google software engineering candidates for fit, team and engineering proficiency.

Senior Software Engineer (L5)

Google Cloud Data Center Design Engineering

Sunnyvale, CA — 2025 - Present

- **Developed features for data center modeling** to meet the growth of data center deployments across Google's SDN and hardware.
- **Cross team collaboration to deliver and support** systems in the network planning lifecycle.
- **Agentic AI development** to automate and increase velocity of deliverables and productivity.

Senior Software Engineer (L5)

Google Corporate Engineering Support

Sunnyvale, CA — 2023 - 2025

- **Developed a reporting platform** to gauge user experience across products.
- **Engineered reporting with multi-product integrations** across multiple technology stacks involving backend and frontend features.
- **Led a cross-functional team** to gather requirements and create engineering solutions, managing multiple products and outlining project timelines. Coordinated work across 4 different teams.

Senior Software Engineer (L5)

Google Corporate Engineering Privacy

Sunnyvale, CA — 2021 - 2023

- **Developed a self-service privacy platform** for third-party tools at Google, improving privacy management across products.
- **Engineered GDPR compliance controls**, including data retention enforcement, verification, auditing, and classification.
- **Led a cross-functional team** to gather requirements and create engineering solutions, managing multiple products and outlining project timelines.

Software Engineer (L4)

Google Ads Privacy Engineering

Mountain View, CA — 2019 - 2021

- **Implemented privacy controls for GDPR compliance**, focusing on data retention and verification. Also compliance with law enforcement requests, identity handling and data portability.
- **Assisted various teams** with privacy-related concerns, enhancing overall compliance across products.

Software Engineer (L4)

YouTube Trust and Safety Engineering

Mountain View, CA — 2017 - 2019

- **Built and maintained a self-service platform** to counter abuse on YouTube, significantly impacting product area safety.
- **Collaborated with policy stakeholders** to develop workflows that combat platform abuse.

Senior Software Engineer

Xignite

San Mateo, CA — 2012 - 2017

- **Lead engineer for private label offerings**, serving clients like NASDAQ and CME.
- **Created a white label solution** that saved Bloomberg users over 20% on data licensing; received an award for the BMO Skyway offering.
- **Reduced operating costs by 66%** for a private label platform through strategic engineering improvements.
- **Developed a REST-based API framework**, decoupling front-end and back-end processes, which accelerated development cycles.

Software Engineer

Vibrant Technology, Inc.

Scotts Valley, CA — 2008 - 2012

- **Architected a machine monitoring system** and data acquisition framework, significantly enhancing product capabilities.
- **Refactored a 500,000+ line monolithic codebase** into an object-oriented library system, improving maintainability.
- **Performed a security audit** and revamped security protocols, reducing the attack surface by 99%.

Web Design Consultant

Remote — 2006 - 2008

- **Developed static and dynamic websites**, including a CMS with user authentication and statistical analysis for concert venue ratings.

Senior Systems Analyst

Yum! Brands

Irvine, CA — 2001 - 2006

- **Automated troubleshooting processes** using Bash, significantly reducing call times in help desk support.
- **Awarded "Analyst of the Year"** for excellence in system analysis and leadership.

Education

University of California, Santa Cruz

Bachelor of Science, Computer Science, Class of 2012

Summa Cum Laude (3.98 GPA), High Honors in Jack Baskin School of Engineering

Recipient of The David S. Lee and Campus Merit Scholarships

Hobbies

- Contributing to and owning several open source projects:
 - [Cache APT Packages Action](#): Caches APT packages for GitHub Actions (10k+ usages).
 - [Typescript APT Library](#): Programmatic access to managing APT packages for devops.
 - [Google Keep Sorted VSCode Extension](#): Native support for [Google's Keep Sorted linter tool](#).
 - [PCAP-NG File Reader](#): Native C# implementation of RFC PCAP-NG.
 - [Fluent C++](#): C++ library for functional expression and auto-complete.
 - Activities: Backpacking, hiking, bodyboarding, photography, and cooking.
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References

Available upon request.