

STEFANIE JANE

Engineering Leader | Software Sorceress | Maker | Founder

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Summary

With a passion for technology and creativity, I bring over two decades of transformative experience across the entire software stack. From pioneering open-source mobile innovation to leading enterprise AI initiatives, I've consistently pushed technological boundaries while building and mentoring high-performing teams. My expertise spans Android OS, embedded systems, cloud infrastructure, frontend development, and cutting-edge AI/ML applications. I thrive at the intersection of visionary leadership and hands-on technical execution, always pursuing innovation with purpose.

Let's build something amazing together!

Top Skills

Programming Languages

[C](#) [C++](#) [Go](#) [Java](#) [JavaScript](#) [Kotlin](#) [Node.js](#) [Perl](#) [Python](#) [Ruby](#) [Rust](#) [TypeScript](#)

Technical Expertise

Mobile & Embedded:

[Android Apps](#) [Android OS](#) [BSP](#) [Device Drivers](#) [Embedded Systems](#) [Firmware](#) [Linux Kernel](#)
[Qualcomm Snapdragon](#)

Cloud & Infrastructure:

[AWS](#) [Cloud Services](#) [Edge Computing](#) [Infrastructure](#) [Kubernetes](#) [PostgreSQL](#) [System Architecture](#)

Specialized Domains:

[AI/ML](#) [IoT](#) [Performance Optimization](#) [Realtime Systems](#)

Engineering Leadership

[Mentoring](#) [Product Strategy](#) [Project Management](#) [Software Development Lifecycle](#) [Software Licensing](#)
[Team Management](#) [Technical Vision](#)

Experience

Gradial

Principal Software Engineer

(May 2025 - Present)

- ▶ Leading platform engineering and infrastructure development
- ▶ Built foundational authentication and permissions systems for applications
- ▶ Owning developer experience, creating efficient workflows and tooling

- ▷ Enhancing and extending AI agent capabilities
- ▷ **Technologies:** TypeScript, Next.js, React, Python, Kubernetes

Mason

Senior Principal Engineer

(May 2024 - May 2025)

- ▷ Led multiple new AI product initiatives
- ▷ **Technologies:** Java, C++, Kotlin, Go, Python, Node.js, React, Django, FastAPI, AWS, Kubernetes, PostgreSQL

Director of Software Engineering

(March 2021 - May 2024)

- ▷ Led software teams through significant growth phase
- ▷ Key technical contributor and engineering leader
- ▷ Managed cloud services and device software teams
- ▷ Built processes for supporting customers and developers
- ▷ Created tutorial videos and webinars for developer experience

Principal Software Engineer

(May 2019 - March 2021)

- ▷ Led bringup of new hardware platforms
- ▷ Developed firmware and Android OS for mobile devices using Qualcomm Snapdragon hardware
- ▷ Launched several phones and a smartwatch
- ▷ Enhanced capabilities of device management platform
- ▷ Designed and implemented X-Ray remote device management system, streamlining troubleshooting and diagnostics for enterprise MDM
- ▷ Mentored new team members and provided technical direction

Cartogram, Inc

Board Member

(April 2015 - Present)

- ▷ Provide strategic direction and technology oversight
- ▷ Advise on product development and technical architecture
- ▷ Contribute to company growth strategy and industry positioning

Oculus VR

Systems Software Engineer

(April 2017 - March 2019)

- ▷ Contributed significantly to the launch of Oculus Go, the first self-contained VR headset
- ▷ Focused on OS software, audio systems, power optimization, and soft realtime scheduling
- ▷ Integrated multi-architecture, multi-toolchain build system with Sandcastle CI
- ▷ Brought up several new prototype boards for future products
- ▷ Implemented low-level support for A/B OTA system
- ▷ Provided post-market support for Oculus Go product
- ▷ **Technologies:** C, C++, Java

Cyanogen Inc

Chief Technology Officer

(March 2013 - November 2016)

- ▷ Co-founded Cyanogen Inc, building on the popular [CyanogenMod](#) open-source project, which had thousands of contributors and millions of users worldwide
 - ▷ Deeply involved in fundraising, securing venture capital, and strategic hiring
 - ▷ Launched multiple mobile phones featuring CyanogenOS with OEM partners
 - ▷ Delivered keynote presentations at international technology conferences
 - ▷ Directed technology strategy and roadmap for the company
- ▷ **Technologies:** C, C++, Java, Python, [AWS](#)

Samsung Telecommunications America

Staff Software Engineer

(August 2011 - March 2013)

- ▷ Led R&D team pioneering new features for Samsung's mobile portfolio
 - ▷ Served as lead engineer for flagship US carrier releases including Galaxy S2/S3 and Note series
 - ▷ Established strategic collaboration between Samsung and open-source communities
 - ▷ Optimized device performance and carrier certification processes, accelerating time-to-market
- ▷ **Technologies:** C, C++, Java, Python

Penthera Technologies

Senior Software Engineer

(May 2010 - June 2011)

- ▷ Developed network-friendly media streaming software
 - ▷ Built cross-platform applications for [MeeGo](#) ([Qt](#)) and Android, including web client interfaces
 - ▷ Enhanced media transcoding platform performance
- ▷ **Technologies:** Ruby, Rails, C++, Java

Health Monitoring Systems

Lead Software Architect

(July 2006 - May 2010)

- ▷ Built technical infrastructure from the ground up
 - ▷ Developed EpiCenter, a syndromic surveillance platform collecting data from hundreds of hospitals nationwide
 - ▷ Designed high-performance analytics engine with spatial analysis capabilities
 - ▷ Created the Mergence HL7 integration engine for processing large-volume real-time data feeds
 - ▷ Developed custom spatial extensions for Hibernate ORM to support geospatial analytics
- ▷ **Technologies:** Java, JavaScript, Groovy, [Spring](#), [Hibernate](#), [ExtJS](#), [PostgreSQL](#), Oracle

University of Pittsburgh

Systems Engineer

(May 2005 - July 2006)

- ▷ Built and optimized Oracle clusters and geospatial database architecture
 - ▷ Developed core features for the RODS Lab's syndromic surveillance platform
 - ▷ Implemented data processing algorithms for real-time public health monitoring
- ▷ **Technologies:** Oracle, [ArcGIS](#), Java

Expedient

Lead Systems Engineer / Software Developer

(April 1998 - April 2005)

- ▷ Progressed from entry-level support to lead systems engineer

- ▷ Designed and developed customer-facing infrastructure management software for DNS, web, and email services, serving millions of ISP customers
- ▷ Built custom trouble ticketing and issue management system for support/helpdesk operations
- ▷ Architected high-availability production platforms for web hosting, email, and connectivity services
- ▷ Maintained Fibre Channel SAN (EMC, Brocade) and backup equipment (StorageTek)
- ▷ **Technologies:** Java, C, Python, Perl, [Postfix](#), [qmail](#), Oracle, [Solaris](#)

Notable Open Source Projects

- ▷ [CyanogenMod/LineageOS](#): Created the world's largest custom Android ROM, empowering millions to customize and extend the life of their devices
- ▷ [DroidMind](#): A bridge between AI assistants and Android devices that implements the [Model Context Protocol \(MCP\)](#), enabling control through natural language
- ▷ [git-iris](#): AI-accelerated git workflow tool that enhances efficiency in version control management
- ▷ [Home Assistant Enhancements](#): Various contributions to the Home Assistant ecosystem, including themes and integrations
- ▷ [uchroma](#): Advanced driver for Razer Chroma hardware in Linux systems

Explore all my open source projects on [GitHub](#)

Recognition & Achievements

- ▷ Created [CyanogenMod](#), now [LineageOS](#), revolutionizing Android customization for millions of users
- ▷ Established a foundation for device longevity through community-supported software
- ▷ Led one of the most successful open-source projects in the mobile ecosystem
- ▷ Featured presenter at Big Android BBQ for multiple years
- ▷ Keynote speaker at Droidcon and March of the Droids
- ▷ Industry panelist on mobile technology, open source, and software development
- ▷ Represented CyanogenMod/Cyanogen Inc. at global product announcements and industry events

Personal Interests

- ▷ Avid roller skater and roller derby player
- ▷ Electronic music producer
- ▷ Flow artist and fire performer