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Staff Software Engineer / Robotics Infrastructure, Developer Tooling, and AI Agent Platforms

Summary

Staff-level software engineer building infrastructure, developer tooling, backend platforms, and AI-agent systems for high-ambiguity product environments. Former Meta and Google engineer with experience across cloud infrastructure, internal developer platforms, API testing, production security systems, and commerce-scale ML workflows. Runs a live autonomous-agent fleet using Kubernetes-style isolated runtimes, Terraform/OpenTofu, CI-backed verification, OpenTelemetry, MCP-style callable capabilities, and reusable skills, directly aligned with robot deployment, telemetry, secure cloud communication, and developer velocity.

Selected Robotics Platform, Infrastructure & Agent Systems Portfolio

Infrastructure, Developer Tooling & Reliability

- Built CI-backed verification loops, automated evaluation harnesses, runner reliability checks, and quality gates for autonomous engineering workflows.
- Instrumented production agent systems with OpenTelemetry traces, metrics, logs, and dashboards across tool calls, latency, trajectories, recovery behavior, and operational health.
- Modeled each agent as a reusable Terraform/OpenTofu module covering identity, runtime, skills, schedule, secrets, and operational configuration, turning fleet changes into declarative infrastructure updates.
- Built Google Play API test infrastructure, including a configurable fuzzer for third-party Play APIs, and earlier Google Shopping experimentation environments that let engineering and design teams test without production impact.

Agentic AI, Backend Platforms & Ambiguous Technical Programs

- Built a production multi-agent fleet on Nous Research's open-source Hermes with per-agent isolation, GitOps, CI gates, scheduling, messaging, browser and terminal tools, and controlled credentialed execution.
- In Google Cloud Office of the CTO, built early agentic-coding systems, SWE-bench evaluation harnesses, and planning-vs-execution metrics to de-risk emerging AI engineering workflows.
- At Meta Marketplace, shipped an ML-assisted listing flow that removed manual item-weight entry for shipped listings; predictions were evaluated against user-entered weights and carrier actuals, met the launch threshold near 80% accuracy, and lifted new-listing creation about 8%.
- Built backend, platform, cloud, healthcare, and regulated systems in Python and Java across APIs, data workflows, production engineering, and operational environments.

Experience

Meta, Software Engineer

New York, NY | 2025 to 2026

- Expanded Facebook Marketplace third-party partner APIs and shipped-listing workflows for partner and seller-facing commerce.
- Shipped an ML-assisted listing flow that removed manual item-weight entry for shipped listings; predictions were evaluated against user-entered weights and carrier actuals, met the launch threshold near 80% accuracy, and lifted new-listing creation about 8%.

Google, Software Engineer

Pittsburgh / Austin / Remote / Atlanta | 2018 to 2025

- Worked across Google Shopping (Engineering Productivity), Google Play, Google Cloud Office of the CTO, and Internal Identity and Access Management.
- In Google Cloud Office of the CTO, built early agentic-coding systems: a Gemini-based software-engineering agent, SWE-bench eval harnesses, and planning-vs-execution metrics that guided funding and staffing; benchmarked vector-search frameworks at scale (ScaNN, FAISS, pgvector) to position GCP's AI competitively.

- In Google Play, helped build [Play Games Leagues](#) from the ground up on a five-engineer team and designed a configurable fuzzer for third-party Play APIs.
- Built Insider Risk systems for internal security, enterprise identity, and trust-sensitive access.

Earlier, Backend / Platform / Healthcare Engineering Citi, Lumeris, ClearDATA, and others

- Built backend, platform, cloud, and healthcare systems in Python and Java across APIs, data workflows, and regulated environments.

Selected Systems & Public Work

- [Public agent-skills](#): reusable agent procedures, authoring patterns, and an MCP-vs-skills framework.
- [Operating Agent Fleets](#): an evidence-backed field guide for durable agent systems and bounded authority.
- [polymarket-insider-tracker](#): a Python tool that flags suspicious wallet activity on Polymarket prediction markets.
- AI instructor and speaker: led an [Ayiti AI](#) bootcamp session on MCP, AI-assisted coding, and deployment, and [addressed lawmakers on AI policy](#) at the NHAEON National Leadership Summit.

Technical Skills

Languages:	Python, Java, Kotlin, JavaScript/TypeScript, Hack, PHP, Bash, SQL
AI / Agent Systems:	AI agents, skills/playbooks, MCP-style tools, tool calling, evals, agent harnesses, autonomous coding loops, context engineering, RAG, model routing, secure tool execution, state management
Product & Systems:	API design, backend platforms, distributed systems, workflow orchestration, product metrics, experimentation, launch analysis, developer infrastructure
Security & Enterprise:	internal IAM, auth boundaries, insider-risk systems, credential brokering, trust-sensitive workflows, privacy/security review gates
Infrastructure:	Kubernetes, OpenTofu/Terraform, Argo CD, Docker, Linux, GitHub Actions, Actions Runner Controller, CI/CD, observability, multi-cloud
Data & Cloud:	PostgreSQL, Redis, Kafka, InfluxDB, Google Cloud, AWS