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Senior Software Engineer / Architect / AI Assistant Systems and Enterprise Platforms

Summary

Software engineer building AI assistant, platform, and enterprise workflow systems where reliability, security, data boundaries, and product utility matter. Former Meta and Google engineer with marketplace, cloud, IAM/security, engineering-productivity, and applied-AI experience. Runs a live autonomous-agent fleet with reusable skills, MCP-style capabilities, CI-backed verification, observability, and human-on-the-loop controls across real operational workflows.

Selected AI Assistant and Enterprise Platform Portfolio

Agent Skills, MCP & Tooling

- Agent-architecture framework where MCP servers expose callable capabilities and skills encode reusable judgment and procedures, including a skill for choosing MCP vs skills.
- Public and internal skills/MCP authoring workflows with privacy scanning, security-audit gates, and broker-held credentials; agents build their own MCP servers and contribute skills back.

Fleet, Observability, Security & Production Rigor

- Modeled each agent as a reusable Terraform module (identity, runtime, skills, schedule, secrets), so adding or reconfiguring an agent is a declarative change rather than a bespoke rebuild.
- Fleet instrumented with OpenTelemetry (traces, metrics, logs) including agent tool-call, token, latency, and trajectory telemetry, with a live dashboard.
- Built CI-backed verification loops for autonomous engineering work, including multi-substrate testing, runner reliability, and cost-aware execution patterns.
- Built a production multi-agent fleet on [Nous Research's open-source Hermes](#), choosing compose-over-fork so upstream improvements arrive via version bumps rather than fork maintenance.
- Per-agent OS-user and namespace isolation; GitOps and IaC with OpenTofu and Argo CD; runtime controls via flagd/OpenFeature; keyless secrets-broker custody with PAKE.

Autonomous Agent Harnesses & Loops

- Self-healing orchestrator coordinating six always-on agents through a SQLite priority queue, with multi-consumer leases, parallel workers, and dispatch/fan-out for team parallelism; tens of thousands of tasks executed over months of continuous operation.
- Watchdog that detects parked, stalled, and idle-while-work-pending agents and recovers them or enforces continued execution; reliable inter-agent messaging and resolve-or-decompose loops.
- Agents doing real work: credentialed document retrieval and prep, risk-capped live-capital market-making, CI repair, repo changes, and long-running task decomposition.

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