

Patrick Selamy

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Senior Fullstack Software Engineer / AI-Native Healthcare Platforms, Backend Systems, and Product Automation

Summary

Software engineer focused on AI-native product platforms, backend services, APIs, data workflows, and operationally sensitive systems. Former Meta and Google engineer with deep Python and Java experience, strong AI-assisted TypeScript capability, and a track record of shipping reliable systems across healthcare, regulated cloud, commerce, identity, and agent-infrastructure domains. Built early Gemini-based software-engineering agents, SWE-bench-style evaluation harnesses, and a live autonomous-agent fleet with observability, CI gates, and human-review controls.

Alpaca Health Alignment

- Built healthcare, regulated cloud, identity, and commerce systems where data integrity, sensitive workflows, and operational reliability matter, including Lumeris, ClearDATA, Citi, Google, and Meta.
- Owns systems end-to-end across product requirements, backend data models, APIs, reliability, instrumentation, testing, and user-impact measurement rather than narrow feature slices.
- Strong fit for AI-native clinical and operational workflows: production agent systems, retrieval and tool use, memory/context handling, evals, guardrails, and workflow automation with human-review boundaries.
- Product-platform background maps well to scheduling, billing, payroll, credentialing, compliance, parent/provider communication, and internal automation systems that turn messy real-world workflows into software abstractions.

Selected Product, Healthcare & AI Systems Portfolio

Healthcare, Regulated Systems & Product Platforms

- Built backend, platform, cloud, and healthcare systems in Python and Java across APIs, data workflows, and regulated environments at Lumeris, ClearDATA, Citi, Google, and Meta.
- Built trust-sensitive systems for internal security, enterprise identity, access management, and credential boundaries, with emphasis on privacy, reliability, and controlled access to sensitive workflows.
- At Meta Marketplace, expanded third-party partner APIs and shipped-listing workflows, then launched an ML-assisted listing flow that removed manual item-weight entry, met launch-quality thresholds, and lifted new-listing creation about 8%.

AI-Native Engineering, Tooling & Fullstack Execution

- In Google Cloud Office of the CTO, built early Gemini-based software-engineering agents, SWE-bench evaluation harnesses, planning-vs-execution metrics, and vector-search benchmarks.
- Runs a live autonomous-agent fleet with MCP-style tools, reusable skills, OpenTelemetry traces and metrics, CI-backed quality gates, and recovery loops for long-running credentialed workflows.
- Uses AI-assisted engineering workflows while preserving review, testing, and human-control boundaries; strongest implementation depth is Python/Java with AI-assisted TypeScript delivery.

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