

# Patrick Selamy

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*Senior Software Engineer / Generative AI Product Development, Agentic Workflows, and Internal Platforms*

## Summary

Senior software engineer focused on taking generative-AI products from ambiguous internal need to production workflow: agentic coding systems, tool-calling runtimes, evaluation harnesses, context engineering, retrieval, and developer-facing platforms. Former Meta and Google engineer with Google Cloud Office of the CTO experience building early Gemini-based software-engineering agents, SWE-bench-style eval harnesses, planning-versus-execution metrics, and vector-search benchmarks. Builds pragmatic internal AI applications with Python/Java depth, product judgment, security boundaries, adoption focus, and measurable workflow impact.

## Selected Generative AI Product Development Portfolio

### *Greenfield GAI Products & Internal Workflow Automation*

- Built Gemini-based software-engineering agents in Google Cloud Office of the CTO, including tool-use loops, SWE-bench-style evaluation, planning-vs-execution measurement, and vector-search benchmarking across ScaNN, FAISS, and pgvector.
- Runs a live autonomous-agent fleet that turns internal workflows into callable tools, reusable skills, review-gated actions, scheduled jobs, document operations, messaging workflows, and CI-backed verification.
- Designs AI systems around real user workflows: context gathering, tool contracts, retrieval, structured outputs, safe execution boundaries, human approval gates, and measurable task outcomes rather than demo-only chat experiences.

### *Product Ownership, Adoption & Regulated Enterprise Fit*

- Shipped an ML-assisted Meta Marketplace listing flow that removed manual item-weight entry, met launch-quality accuracy near 80%, and lifted new shipped-listing creation about 8%.
- Built internal platform and trust-sensitive systems across Google Cloud Office of the CTO, Google Internal IAM, Citi, ClearDATA, Lumeris, and Meta, with emphasis on stakeholder collaboration, secure APIs, reliability, and adoption.
- Strongest implementation depth is Python and Java, with AI-assisted TypeScript delivery and a track record of translating ambiguous business/product needs into production engineering systems.

## 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

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- [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

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| <b>Languages:</b>                 | Python, Java, Kotlin, JavaScript/TypeScript, Hack, PHP, Bash, SQL                                                                                                                             |
| <b>AI / Agent Systems:</b>        | 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 |
| <b>Product &amp; Systems:</b>     | API design, backend platforms, distributed systems, workflow orchestration, product metrics, experimentation, launch analysis, developer infrastructure                                       |
| <b>Security &amp; Enterprise:</b> | internal IAM, auth boundaries, insider-risk systems, credential brokering, trust-sensitive workflows, privacy/security review gates                                                           |
| <b>Infrastructure:</b>            | Kubernetes, OpenTofu/Terraform, Argo CD, Docker, Linux, GitHub Actions, Actions Runner Controller, CI/CD, observability, multi-cloud                                                          |
| <b>Data &amp; Cloud:</b>          | PostgreSQL, Redis, Kafka, InfluxDB, Google Cloud, AWS                                                                                                                                         |