

Patrick Selamy

New York, NY | (210) 704-7370 | pselamy@gmail.com | selamy.dev | linkedin.com/in/patrickselamy | github.com/pselamy

Lead Software Engineer / Developer Productivity, Distributed Systems, Kubernetes, and App Engineering

Summary

Lead software engineer focused on developer productivity platforms, resilient backend systems, infrastructure automation, and AI-enabled engineering workflows. Former Meta and Google engineer with experience building internal platforms across Google Cloud Office of the CTO, Google Internal IAM, Google Play, Citi, ClearDATA, Lumeris, and Meta Marketplace. Strong Python and Java depth, practical Kubernetes/Linux/cloud experience, and a bias for user-facing developer tools that improve delivery, reliability, and engineering effectiveness firmwide.

Selected Application Engineering & Infrastructure Portfolio

Developer Productivity Platforms & Firmwide Engineering Effectiveness

- Built early Gemini-based software-engineering agents, SWE-bench-style evaluation harnesses, planning-vs-execution metrics, and vector-search benchmarks in Google Cloud Office of the CTO to improve engineering workflows and technical decision-making.
- Runs a live autonomous-agent fleet with MCP-style callable tools, reusable skills, CI-backed verification, traceable execution, credential boundaries, and approval gates for external actions.
- Designs developer-focused systems that combine APIs, context layers, workflow orchestration, observability, and safe automation so teams can move from idea to production with fewer manual handoffs.

Distributed Systems, Kubernetes & Enterprise Infrastructure

- Built backend, platform, cloud, and regulated systems across Meta, Google, Citi, ClearDATA, and Lumeris, with emphasis on privacy, access control, resilient APIs, maintainable services, and production tradeoffs.
- Applies Kubernetes, Docker, Linux, Terraform/OpenTofu, Argo CD, GitHub Actions, cloud infrastructure, and observability to platform systems where reliability and clear failure modes matter.
- Collaborates across product, security, business, and engineering stakeholders to turn open-ended infrastructure needs into concrete architecture, implementation plans, and production rollouts.

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