

Patrick Selamy

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Senior Software Engineer / Applied AI Platforms, Agent Workflows, Enterprise AI Evaluation

Summary

Senior software engineer focused on AI prototyping, evaluation, agent workflows, and backend/platform systems for high-trust environments. Former Meta Software Engineer (E5) and Google engineer promoted from L3 to L4, selected into the 12-engineer Google Cloud Office of the CTO Applied Innovation Factory. Builds pragmatic systems that connect models, tools, retrieval, data, approvals, telemetry, and product workflows with measurable outcomes.

Experience

Meta, Software Engineer (E5), Marketplace and Dating New York, NY | 2025 to May 2026

- Served as a Software Engineer (E5) across Marketplace and Dating product areas.
- Expanded Facebook Marketplace third-party partner APIs and shipped-listing workflows, replacing partner workarounds with cleaner API paths for seller-facing commerce.
- Owned the ML-assisted shipped-listing flow that removed manual item-weight entry; evaluated predictions against user-entered weights and carrier actuals, used shadow-mode validation before rollout, and delivered a positive launch/business outcome for Marketplace listings.

Google, Software Engineer, promoted L3 to L4 Pittsburgh / Austin / Remote / Atlanta | 2018 to 2025

- Promoted from L3 to L4 while moving across Google Shopping Engineering Productivity, Internal Identity and Access Management / Insider Risk, Google Cloud Office of the CTO, and Google Play.
- Selected into the Google Cloud Office of the CTO Applied Innovation Factory, a 12-engineer rapid-prototyping group assembled from across Google and external hires to build prototypes for senior Google Cloud executives before larger funding or staffing decisions.
- Built early Gemini-based software-engineering agent prototypes with planner/executor loops, repository context retrieval, SWE-bench-style eval harnesses, planning-vs-execution metrics, target-file precision/recall/F1, test-pass measurement, and vector-search benchmarks comparing ScaNN, FAISS, and pgvector.
- In Google Play, helped build [Play Games Leagues](#) from the ground up on a five-engineer team, designed a same-day opt-in smoke-test framework for third-party Play developer APIs, and contributed to AI for Accessibility scanning for app accessibility gaps.
- Built Insider Risk systems for internal security and enterprise identity, including ownership reassignment for former-employee Google Drive content and visibility reduction for overly broad document sharing.

Earlier, Backend / Platform / Healthcare Engineering Citi, Lumeris, ClearDATA, and others | 2010 to 2018

- At Citi, progressed from helpdesk and application deployment into technical-specialist ownership of Cards knowledge management systems, including integration work with Oracle knowledge-management tooling for a major enterprise modernization.
- Built backend, platform, cloud, and healthcare systems in Python and Java across APIs, data workflows, and regulated environments, including ClearDATA cloud-security abstractions and Lumeris predictive-analytics healthcare tooling.

Selected Systems & Public Work

- Personal agent platform: built and operates a personal agent workflow system with memory-backed context, MCP-style tool routing, reusable skills, scheduled jobs, messaging/document workflows, human approval gates, credential boundaries, CI-backed verification, and specialized lanes.
- [Public agent-skills](#): reusable agent procedures, skill authoring patterns, and an MCP-vs-skills framework for separating callable capabilities from reusable judgment.
- [Operating Agent Fleets](#): field guide for durable agent systems, planner/executor separation, memory discipline, tool routing, evidence gates, and bounded authority.
- [polymarket-insider-tracker](#): public-data market-surveillance research tool that flags anomalous 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, Bash, SQL

AI / Agent Systems: agent workflows, MCP-style tools, tool calling, evaluation harnesses, context engineering, RAG, retrieval benchmarks, structured outputs, secure tool execution

Backend & Product Systems: API design, backend platforms, distributed systems, workflow orchestration, product metrics, experimentation, developer infrastructure

Security & Enterprise: internal IAM, auth boundaries, insider-risk systems, credential boundaries, privacy/security review gates, trust-sensitive workflows

Infrastructure: Kubernetes, OpenTofu/Terraform, Argo CD, Docker, Linux, GitHub Actions, CI/CD, observability

Data & Cloud: PostgreSQL, Redis, Kafka, Google Cloud, AWS