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Tech Lead, Full Stack / Agent-Driven SDLC, Product Engineering, Backend Platforms, and Reliability

Summary

Senior software engineer and technical lead for product-facing backend and platform systems, with experience across Meta, Google, Citi, ClearDATA, and Lumeris. Built agent-driven software-engineering systems in Google Cloud Office of the CTO, including Gemini-based coding agents, SWE-bench evaluation harnesses, planning-vs-execution metrics, and vector-search benchmarks. Runs a live autonomous-agent fleet with callable tools, reusable skills, CI-backed verification, scheduling, messaging, credential boundaries, observability, and human-review controls. Strongest depth in Python and Java, practical JavaScript/TypeScript and React capability, and a track record of taking ambiguous systems from 1 to broader adoption without overstating stack-specific experience.

Selected Fit for Attention

Agent-Driven SDLC and Engineering Leverage

- Built Gemini-based software-engineering agents and SWE-bench evaluation harnesses in Google Cloud Office of the CTO, using metrics to separate planning quality, execution quality, and end-to-end task success.
- Operates a live multi-agent development and operations fleet where agents triage work, call tools, edit code, run tests, verify artifacts, update durable skills, and escalate irreversible actions to a human owner.
- Designs agent workflows around typed tool boundaries, source-grounded context, approval gates, traceable execution, retries, recovery paths, and evidence-backed completion instead of unchecked automation.

Technical Leadership, Product Ownership, and 1 to N Scaling

- Led ambiguous work from problem framing through architecture, implementation, launch evidence, and long-term maintainability across consumer, commerce, identity, cloud, and healthcare systems.
- At Meta Marketplace, expanded third-party partner APIs and shipped-listing workflows, then launched an ML-assisted listing flow that met launch-quality accuracy and lifted new-listing creation about 8%.
- At Google Play, helped build [Play Games Leagues](#) from the ground up on a five-engineer team, balancing user-facing product quality with backend platform requirements.
- Partners closely with product, design, leadership, and customers, using product judgment, metrics, and system tradeoffs to decide what to build and how to sequence it.

Backend, Platform, Reliability, and Full-Stack Execution

- Built production backend services, APIs, data workflows, identity systems, and platform tooling in Python, Java, Kotlin, SQL, and related JVM/server-side stacks.
- Uses Kubernetes, Docker, Linux, GitHub Actions, Actions Runner Controller, CI/CD, logs, metrics, traces, and operational gates to make platform and agent systems observable and recoverable.
- Practical with React and TypeScript for product surfaces and AI-assisted full-stack delivery, while strongest implementation depth remains backend, platform, agents, and reliability.
- Learns unfamiliar production stacks quickly through source-driven implementation, tests, instrumentation, and small verified releases rather than claiming prior ownership of every technology in a target stack.

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%.

- Worked in a large-scale product organization where reliability, product quality, experimentation, review quality, and operational ownership shaped delivery.

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 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.

Public Work and Current Systems

- [selamy-labs/agent-skills](#): reusable agent procedures and operating standards for delegated coding, review, verification, and recovery.
- [github.com/pselamy](#): public engineering portfolio spanning agent infrastructure, evaluation harnesses, automation, and system design artifacts.
- [selamy.dev](#): public writing and portfolio surface for agent operations, technical leadership, and production-oriented AI systems.

Technical Skills

Languages:	Python, Java, Kotlin, JavaScript/TypeScript, Hack, PHP, Bash, SQL
AI / Agents:	AI agents, agent-driven SDLC, tool calling, MCP-style tools, skills/playbooks, SWE-bench, eval harnesses, context engineering, RAG, model routing, secure tool execution
Product & Backend:	API design, backend services, data models, workflow orchestration, product metrics, experimentation, launch analysis, developer infrastructure
Frontend:	React, TypeScript, JavaScript, product UI collaboration, AI-assisted full-stack delivery
Reliability & Platform:	Kubernetes, Docker, Linux, GitHub Actions, Actions Runner Controller, CI/CD, observability, traces, metrics, logs, incident-oriented verification, OpenTofu/Terraform, Argo CD
Security & Enterprise:	internal IAM, auth boundaries, insider-risk systems, credential brokering, trust-sensitive workflows, privacy/security review gates