

George Lydakis

Senior Software Engineer | Agent Systems, Evaluation Infrastructure, Developer Tooling

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Senior software engineer building reliable, measurable agent systems in production. Work spans AWS orchestration and security-constrained infrastructure generation, independent coding-agent evaluation, and open-source agent tooling.

EXPERIENCE

Amazon	May 2021 – Present
Senior Software Engineer, AWS Transform Boston, MA	Apr 2026 – Present
Software Development Engineer II, AWS Transform	Aug 2025 – Apr 2026
- Owned the orchestrator architecture and led technical execution within an eight-engineer team that took AWS Transform for VMware from an inherited proof of concept to production at re:Invent 2025. The product is designed for enterprise VMware estates spanning hundreds of applications and thousands of servers. Wrote production code across the Python runtime, prompts, tools, and validators and helped harden the system with retries, health checks, integration tests, canaries, and evaluation workflows. - Coordinated integration with senior engineers across four partner teams whose work followed the orchestrator’s reference pattern and presented launch risks and readiness to VP-level leadership; continues advising engineers as the team has grown to 15 and expanded into migration planning. - Designed and technically led AWS Transform’s infrastructure-generation agent, with two engineers implementing Terraform for Amazon ECS and Helm for Amazon EKS against the design. Defined the tool surface, approved-template constraints, and deterministic validators; owned end-to-end AppSec approval for the broader source-code containerization agent. - Trained support teams and wrote launch runbooks; led an org-wide Lunch and Learn and worked with product managers, AWS Professional Services, and users to turn workshop feedback into shipped features.	
Software Development Engineer II, AWS Transfer Family Los Angeles, CA	Mar 2022 – Aug 2025
- Helped launch AS2 protocol support and designed a scalable shared static-IP capability; later served as technical lead for the Los Angeles AS2 team, guiding system design and delivery. - Simplified AWS B2B Data Interchange’s request path by removing a redundant load-balancer layer, eliminating the observed timeout failure mode and one network hop; designed and implemented workload fairness with Amazon SQS fair queues to isolate bursty file-processing demand and protect shared capacity.	
Software Development Engineer, Amazon Ads Los Angeles, CA	May 2021 – Mar 2022
Built campaign-management, billing, and ETL systems supporting Amazon Ads.	

OPEN SOURCE & RESEARCH

ShallowSWE • Creator • shallowswe.com • github.com/lydakis/ShallowSWE	
- Created an open benchmark for coding agents on routine software-engineering tasks, using deterministic verifiers to measure success across bounded repair attempts and cost per verified success. - Published a methodology working paper and economic reanalysis of public DeepSWE data; built a Harbor-compatible Kaggle runner and received a \$1,000 monthly Kaggle compute grant to fund the benchmark’s first full calibration.	
MCPX • Creator • github.com/lydakis/mcpX	
Build and maintain an open-source Go CLI that turns MCP servers into composable shell tools and generated agent skills, with configuration discovery, schema-aware command generation and help, caching, and command shims; distribute it through Homebrew, npm, and PyPI.	

EARLIER EXPERIENCE

Yahoo / Verizon Media, Software Development Engineer II Champaign, IL	Jun 2018 – Apr 2021
Built data pipelines feeding ad-traffic protection models and reporting surfaces exposing their metrics; made open-source contributions to Navi, Fili, and Ember Denali.	
Brainstorm, Student Software Developer Patras, Greece	2011 – 2016
Built and shipped ten Windows and Windows Phone applications and games in a two-person undergraduate team, reaching more than two million store downloads.	

SKILLS

Agent systems: Agent orchestration, evaluation, reliability, developer tooling, Bedrock AgentCore, MCP
Systems and languages: Python, Java, TypeScript, AWS, ECS/Fargate, EC2, SQS, VPC networking, distributed systems

EDUCATION

University of Southern California • Los Angeles, CA • M.S. in Computer Science, Data Science Specialization	2018
University of Patras • Patras, Greece • Diploma in Electrical and Computer Engineering (5-year program, 300 ECTS)	2016