Timothy Mekari

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Professional Summary

Software Engineer with 7+ years building distributed systems and developer platforms on AWS, most recently the infrastructure that runs production AI agents: multi-agent orchestration, Amazon Bedrock AgentCore, and Model Context Protocol (MCP) servers.

Professional Experience

Amazon Web Services

Software Development Engineer II December 2022 – November 2026

- Owned the agent, multi-agent orchestration, and MCP server capabilities of Generative AI Application Builder on AWS, an open-source solution with $1M+ revenue, letting teams self-serve isolated agent stacks on Lambda, DynamoDB, and Bedrock at 99.9% availability across multi-region deployments.
- Launched a production AI agent on Amazon Bedrock AgentCore serving 40,000+ AWS Specialists, consolidating 8+ fragmented internal data sources into a single conversational interface; built a Slack integration that let teams deploy it into their own channels, driving self-serve adoption.
- Designed a workflow-export capability that generates deployable AWS CDK code from customer-built AI workflows, so customers run and evolve them in their own AWS accounts, independent of the platform.
- Built an agent-quality feedback loop that mines conversations to surface knowledge gaps and flag underperforming content tied to poor conversations for curator review; 85% of recommendations actioned.
- Designed a multi-representation summarization pipeline that decomposes resources into dense excerpts under a strict taxonomy at crawl time, improving knowledge base search speed and retrieval accuracy.
- Built serverless deployment pipelines using AWS CDK and infrastructure-as-code, reducing provisioning time by 70% and enabling customers to deploy complex distributed systems in hours versus weeks.
- Led a multi-team shift from IDE code assistance to agent-based CLI development workflows, cutting bug triage from multi-day to same-day and reducing time in code review by 50%.
- Mentored 3 engineers through their first production launches, contributing to 2 promotions; authored 10+ reviewed design documents and served as a regular interviewer for phone screens and coding rounds.

Amazon

Software Development Engineer II February 2022 – December 2022

- Built a JavaScript authentication package for Amazon.com sign-in, cutting cart abandonment by 15%.
- Tuned performance so the platform handled millions of daily requests with zero downtime.

Amazon Web Services

Software Development Engineer July 2019 – February 2022

- Engineered a proprietary solution that prevented 10,000+ sensitive data leaks to public repositories.
- Pioneered automation pipelines and integrated security features into developer tools, improving operational efficiency by 40% and reducing workflow interruptions by 25%.

Education

University of California, Davis Graduated June 2019

Bachelor of Science (B.S), Computer Science

Technical Skills

- AI Agent Infrastructure: Amazon Bedrock, Bedrock AgentCore, Model Context Protocol (MCP), multi-agent workflows, RAG / knowledge retrieval, LangChain
- Distributed Systems: AWS (Lambda, Step Functions, SQS, EventBridge, DynamoDB, S3, RDS, EC2, API Gateway, CloudFormation, CDK); serverless, event-driven and asynchronous architectures
- Observability & Delivery: CloudWatch, X-Ray, CodePipeline, CI/CD, multi-region deployments
- Languages & Tools: Python, TypeScript, JavaScript, Bash; Docker, Git, React