

Paul Schick

Associate Architect & Google Cloud Platform AI Practice Lead · Agentic AI Systems · Cloud Architecture · Full-Stack Engineering

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Summary

Architect and GCP AI practice lead who designs and ships agentic AI systems end to end, from LLM pipelines and MCP tooling down to the cloud infrastructure they run on. Went from entry-level developer to architect in five years at CEI by taking ownership of the hardest problems on enterprise healthcare accounts: served as technical lead while the flagship healthcare account grew from a single consultant to roughly 55 generating about \$1M in monthly recurring revenue, led the client's first legacy modernization of its kind, built the rules engine powering live informational notifications in an enterprise healthcare customer-service platform, work that earned executive-level recognition and team awards.

Pre-med neuroscience researcher who pivoted to programming by way of financial services. Leadership shows up beyond the codebase: trusted by executive operations leadership to interview both consultants hired directly to client projects and internal engineers, and a regular partner in pre-sales for agentic development and GCP engagements.

Professional Experience

CEI Pittsburgh, PA

December 2020 – Present

Associate Architect & Google Cloud Platform AI Practice Lead December 2025 – Present

- Technical lead for CEI's flagship enterprise healthcare account, grown from a single consultant to roughly 55 consultants generating about \$1M in monthly recurring revenue; directly lead a team of 5 developers and 4 business analysts.
- Own architecture and technical direction for enterprise client systems across front end, back end, and cloud infrastructure; maintained and evolved the same client applications over four years, owning work long after it shipped.
- Design and build agentic systems that automate complex business processes, working hands-on with LangGraph, Pydantic AI, MCP, and Vertex AI. One of the first engineers at CEI to pioneer agentic development research and testing.
- Lead CEI's GCP AI practice: define the technical strategy, author executive briefings, and translate client problems into concrete AI architectures.
- Partner with the sales executive and client partner on pre-sales, pitching and delivering AI solutions to VP-level stakeholders on engagements in the \$40K-per-month to \$300K range.
- Presented API modernization and hardening strategies to an audience of 10 manager- and director-level stakeholders at the healthcare client.
- Deliver across multiple clients, including engagements on modern stacks beyond the healthcare account.

Senior Software Engineer December 2023 – December 2025

- Primary mentor for 7 of 16 consultants across 4 scrum teams on the 2025 DBS program; led code reviews to keep engineering standards consistent across teams.
- Conducted 50+ technical interviews for consulting positions on a large enterprise healthcare account.
- Built full-stack features with Angular and TypeScript front ends and Java Spring and Go back ends, including REST APIs serving enterprise-scale traffic.
- Designed and deployed cloud infrastructure on Azure and GCP.

Developer II December 2022 – December 2023

- Shipped production features across the full stack for enterprise client projects while working with architects and senior engineers on system design.
- Expanded into cloud architecture and earned the GCP Professional Cloud Architect certification.

Developer I December 2021 – December 2022

- Built and maintained web application features in JavaScript, HTML, CSS, and Java on Agile delivery teams.

- Earned the GCP Associate Cloud Engineer and Azure Fundamentals certifications.

Associate Developer

December 2020 – December 2021

- Joined CEI from a neuroscience research background and ramped quickly into professional full-stack development on enterprise consulting projects.

University of Pittsburgh

August 2015 – May 2017

Research Specialist

- Supported 4 lead scientists across 5+ projects and 3 research papers, managing complex database recordkeeping, equipment operation, and biological-sample preparation under heavy workloads.
- Trained and led 3 undergraduate researchers using reliable, repeatable protocols.

Product Evaluation Systems, Inc.

June 2012 – June 2013

Laboratory Technician

- Analyzed metallic samples with ICP instrumentation and Optical Emission Spectroscopy; quantified sulfur, oxygen, and nitrogen content via LECO analysis.
- Interpreted analytical data, resolved inconsistencies, and prepared analysis reports.

Selected Projects & Accomplishments

Hands-on AI engineering

Built an extensible Go CLI with pluggable LLM providers, an internal agentic CLI tool that produces bash commands from natural language, OAuth2 middleware bridging the OpenAI SDK to Vertex AI, a resilient JSON-parsing strategy for LLM pipelines in Go, and internal resume-parsing ML tooling.

GCP AI practice leadership

Authored and presented the GCP AI Academy executive briefing (May 2026) on the Gemini Enterprise Agent Platform, covering three enterprise use cases.

Real-time customer-service guidance platform (Enterprise Healthcare)

Led 85%+ of development on a rule-engine platform that surfaces contextual guidance to call-center reps in real time. Shipped November 2023 with nine scenarios and used daily by hundreds of reps; reduced call times and rep ramp-up, and earned executive-level recognition and team awards.

First successful legacy modernization - Enterprise Healthcare

Migrated a WebSphere 8.5 application to OpenShift, OpenLiberty, and Java 21, building the CI/CD pipeline from scratch. The migration is now the reference pattern for future modernizations.

Hybrid AngularJS to Angular migration

Personally built the cross-framework router and connector service that made incremental migration possible, then completed the full Angular 12 migration of Find A Dentist ahead of schedule with 85%+ test coverage.

Section 508 / accessibility leadership (Enterprise Healthcare)

Remediated 25+ applications, taking 15+ healthcare apps from failing to 90%+ passing. The dental division reached the highest accessibility scores in the entire company.

JSF migration (Enterprise Healthcare call-center application)

Led the RichFaces to PrimeFaces conversion of a critical call-center app: 87 user stories over two quarters, completed with minimal issues.

Account growth and long-term ownership

Technical lead on a healthcare engagement that grew from one consultant to roughly 55, generating about \$1M in monthly recurring revenue. Maintained, extended, and migrated the same applications over four years at that client, owning the work rather than building and leaving.

Technical hiring and onboarding

Conducted 50+ technical interviews for internal and client-facing positions and helped onboard 44+ consultants, including 18 Java and full-stack developers.

Open-Source & Personal Projects

Quantitative trading and market-data platform (Go, Python, GCP, Terraform)

Multi-year personal platform spanning real-time ingestion pipelines for prediction markets (Kalshi) and crypto exchanges (Kraken websocket streamers with order-book snapshotting), a securities master data system on GCP provisioned with Terraform, historical data ingestion and curation APIs, and custom backtesting engines written in Go and Python. Includes kalshiflow: a Go pipeline paired with a Python backtesting harness over a shared Parquet contract.

github.com/paulschick

MCP servers and AI tooling

Built an MCP server for document search, contributed to an MCP server giving LLMs context on Spartan NG Angular components, wrote an OpenAI-powered resume parser in Go, and developed custom Claude Code research skills.

Public-data engineering

Tooling to build a PDF dataset of US House financial disclosures with OCR extraction to CSV (Go, Python), and a family of CFTC Commitments of Traders data pipelines and APIs (Go, Java/Spring Boot, SQLite/Postgres).

API clients and utilities (Go, Python, C#)

API wrappers for EODHD pricing and Odds API, a CCXT-based REST API for crypto exchange balances, and an Azure Function processing TradingView webhook alerts into Blob Storage.

Education

University of Pittsburgh

B.S. in Neuroscience

Minor in Chemistry

2016

Profiles

 LinkedIn

[paulmschick](#)

 GitHub

[paulschick](#)

Core Skills

AI / Agentic

Agentic system design, LLM pipelines, Model Context Protocol (MCP), LangGraph, Pydantic AI, Vertex AI, Gemini, OPA, HashiCorp Vault, Temporal, AI-enabled developer tooling

Languages

Go (Golang), TypeScript, JavaScript, Java, Python, Groovy, Bash, SQL

Back-End

Spring Boot, Java EE, Go, REST APIs, WebSphere / OpenLiberty

Front-End

Angular, React, Next.js, HTMX, Templ

Cloud

Google Cloud Platform, Microsoft Azure

DevOps / Infra

CI/CD pipeline design, OpenShift, containerization, cloud-native deployment

Practices

Legacy modernization, Section 508 / A11y, technical leadership, Agile/Scrum, stakeholder communication, technical hiring and mentoring

Certifications

Google Cloud Professional Cloud Architect

Google Cloud

Google Cloud Associate Cloud Engineer

Google Cloud

Microsoft Certified: Azure Network Engineer Associate

Microsoft

Microsoft Certified: Azure Fundamentals

Microsoft