

Philip Amendolia

Platform & Cloud Engineer

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SUMMARY

Engineer with 9+ years shipping cloud-native data and platform infrastructure on Google Cloud Platform. Transitioned into engineering from product management — came up alongside strong engineers and never stopped learning. Owns systems end to end, from IaC and CI/CD through backend APIs and frontend tooling. Strong opinions on reproducibility and doing things right — every environment, build, and container image is built with Nix.

SKILLS

IaC / Systems	Terraform, Nix, NixOS, Kubernetes, Linux, Bash
Cloud (GCP)	Cloud Run, Cloud Functions, Compute Engine, BigQuery, Firestore, Cloud SQL, Pub/Sub, Workflows, Eventarc, IAM & Workload Identity Federation, Cloud Armor, Load Balancing, Secret Manager, Cloud Monitoring/Logging, Artifact Registry
Languages	TypeScript, Python, Go, Nix, HCL, SQL
CI/CD & Containers	GitHub Actions, Cloud Build, Docker, Nix dockerTools (daemonless OCI builds)
Frameworks	Next.js, React, FastAPI, Flask
AI / GenAI	LLM integration, prompt engineering, MCP development, Claude API

EXPERIENCE

EPL Digital

New York City

Staff Engineer

Jul 2022 – Present

- Lead data and platform engineering across internal and client-facing systems; own GCP org-level infrastructure and landing zone, driving IaC (Terraform, Nix) and CI/CD adoption org-wide
- Designed a keyless GCP landing zone built on Workload Identity Federation — no service account keys stored anywhere; WIF pools scoped per-repo so only authorized CI can impersonate deploy service accounts
- Architected and maintain an event-driven ELT platform processing 40M+ rows/day across 10+ API integrations (Cloud Workflows, Pub/Sub, Eventarc, parallelized Cloud Functions)
- Built and deployed an internal bid-optimization platform around a proprietary ML model — API microservice for automated execution plus a Next.js frontend, fully on Cloud Run
- Own infrastructure for the company's SQLMesh data-modeling platform — Terraform, Nix-built OCI images, Cloud Build CI/CD, and a self-hosted Nix binary cache to accelerate builds

Data Engineer

Apr 2019 – Jun 2022

- Architected and deployed foundational data infrastructure, marketing-tracking infrastructure, and internal tooling from the ground up
- Designed and built a multi-tenant, multi-API ELT pipeline platform that became the company's core data engine; led deployment of its first cloud-native applications and introduced modern DevOps/IaC practices (Terraform, CI/CD)

Stack Blue

New York City

Product Manager

Aug 2014 – Apr 2019

- Managed end-to-end delivery for web and mobile product accounts as primary client/engineering liaison; came up alongside strong engineers and transitioned into engineering full-time

NIX & OPEN SOURCE

phix — Personal Nix Flake

NixOS · nix-darwin · home-manager

Reproducible system configs across NixOS bare metal, NixOS-WSL, and macOS. Factory helpers (mkNixosHost, mkDarwinHost) drive consistent host wiring across a modular modules/common / modules/home structure.

nixpkgs / home-manager

Maintainer & contributor

Maintain the home-manager WezTerm module; shipped its darkman unified-scripts option. Open: packaging Senzu for nixpkgs and a Nix installer fix for multi-user --no-modify-profile.

Senzu

Python · Nix (uv2nix) · PyPI

CLI + library syncing .env files with GCP Secret Manager; builds fully managed by Nix (uv2nix).