

Lee Harrold

AI Engineer

Indianapolis, IN
github.com/Harrolee

Kind and curious tinkerer who thrives in chaos

Tools

Generative AI: PyTorch, LangChain,

🤗 Transformers, DSPy, Modal

DevOps: Docker, Terraform, Nginx

Languages: Python, C#, Cpp,

TypeScript/JavaScript, BASH

AWS: EC2, ECS, App Runner, API Gateway, Lambda, S3, IAM, Dynamo

Azure: Service Bus, Event Grid, Logic Apps, Functions, Cosmos, VMs, Azure AD

GCP: Firebase, Cloud Run, CloudSQL, IAM

Recent Engagements

SEP | Westfield, IN

July 2021-Present

SEP's AI Practice

1 Year

- **Drug discovery agent** - Identify emerging trends in neuroscience and synthesize research for investors
- **Rare event classifier** - Time series failure prediction system and data pipeline for natural gas extraction firm
- **AI Consulting** - AI system design for existing and future clients. Improve and implement RAG systems
- **AI Enablement** - Build LLM dev sandbox and internal assistant tools. Advise infrastructure strategy

Brief Engagements

3-6 Months Each

SEP is a software consultancy. SEP engineers switch projects and techstacks frequently

- **Infotainment system** for off-road vehicle manufacturer - Linux, Yocto Project, BitBake, Cpp, QT
- **Timesheet ingestor** for professional services company. Rewrite and re-platform - QuickBooks SDK, C#, .Net 7
- **Inventory pipeline** for clothing distributor - C#, Terraform, Azure: Service Bus, Logic Apps, Functions, Cosmos
- **Greenfield mobile app** for Coke-Freestyle competitor - React Native, TS, Docker
- **Legacy app update** for accounting firm's flagship tax product - Terraform, C#, .NET Framework, Angular, PowerShell, Azure Functions

IoT Connected Water

1 Year

Build and support our client's IoT ecosystem of consumer and commercial water products

- **Migrate and re-platform** IoT dashboard - Nest.js, React, Postgres, Docker, AWS: Ec2, GCP: Cloud Run
- **Reduce complexity** and add features to IoT dashboard - Nest.js, React, Postgres, Docker, Terraform
- **Build a** device status notifier - C#, TS, Msal AuthN, Terraform, Azure: App Service, AD, Release and Deployment

Education

BA Theater Arts: Santa Clara University '15-'18 **GCP Cert:** Professional Data Engineer '19

Data Engineer Boot Camp

WalkWater | San Jose, CA

April - July 2019

- Build case-study projects on GCP with Python, BASH, BigQuery, Pub/Sub, Tableau, DataFlow, SQL
- Learn to build stateless applications with columnar, SQL, and document databases
- Train and deploy ML and Deep Learning models. Architect data pipelines and dashboards

[linkedin.com/in/lee-harrold/](https://www.linkedin.com/in/lee-harrold/)

Personal projects: harrolee.github.io

Last 5 years: harrolee.github.io/resume.pdf