Henry Moore

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SUMMARY

Full-stack developer with 4+ years of experience in automation, cloud computing, and scalable infrastructure. Strong background in integrations, DevOps, and performance optimization. Passionate about reducing costs, improving system reliability, and developing impactful software solutions.

TECHNICAL SKILLS

Python, C#, ASP.NET Core, Typescript, Go, Docker, Kubernetes, Terraform, cloud (AWS, Azure, and GCP), LLMs, machine learning, SQL, Redis, Linux, Rust, RESTful APIs, RPA, React.

EXPERIENCE

Software Engineer: Platform Integrations

Notable Health   October 2022 - February 2025，San Mateo, California

- Automated data entry for Electronic Health Records, saving a significant amount of time for both patients and doctors.
- Optimized software hot paths, increasing the speed of batch jobs by up to 20% and saving over $20,000 per month in server costs.
- Participated in on-call rotations, responding to critical incidents and ensuring system reliability. Added new alerts to help detect incidents more quickly.
- Discussed projects directly with customers to precisely define requirements and receive feedback on early versions of projects.

Full-Stack Software Developer

California Department of Conservation   August 8 - February 2019 | September 2019 - April 2021，Sacramento, California

- Developed and maintained the MOARS web application using C# and ASP.NET Core, implementing features such as automated PDF receipt generation and emailing. This eliminated the need for physical annual report forms, significantly reducing workload.
- Configured services such as CI/CD pipelines to speed up deployments by ~40%, increasing reliability by removing manual deployment steps.
- Developed a program to automatically generate Docusign templates for employees with pre-filled information.

PROJECTS

LLM Chinese Flashcard Generator

github.com/hmoorerg/flashcard_ai/

- Developed a program that uses GPT4 to automatically generate Chinese language flashcards, allowing users to generate tailored study materials.
- Utilized OpenAI's Structured Outputs capabilities to ensure that the LLM returns data in a valid flashcard format.
- Implemented CSV/JSON export functionality, enabling seamless integration with Anki and other flashcard applications.

Custom Wikipedia Search Engine

github.com/hmoorerg/WikiSearchProject

- This project uses a Python scraper (written using Scrapy) across Wikipedia and collects the info into a MongoDB database.
- A web UI allows the user to search through the data. The frontend calls a backend that uses Lucene to provide relevant search results.
- Docker-compose easily deploys all required services at once.

Linux Server Management

- Manage multiple local Linux servers with services such as SSH, MySQL, NGINX, Docker, and Kubernetes.
- The main server uses a declarative definition and new instances can be deployed within seconds.
- Manage cloud servers hosted on DigitalOcean using Terraform.

EDUCATION

Computer Science B.S.

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- Took classes such as machine learning, optimization, and database management.
- Capstone Project: A 2D procedurally generated roguelike Unity game with physics-based gameplay and a variety of enemies. As the player moves through levels, chunks are loaded and unloaded to allow the game to run on extremely low-end hardware.