

Dan Haggerty

Detroit, Michigan
(313) 437-1741
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Experience

NVIDIA

Software Engineer, AI Research Engineering

Detroit, Michigan (Remote)

June 2023 – Present

- Researched and prototyped novel UI/UX patterns for making LLM and agent development easier
- Designed and implemented web applications used for LLM customization, fine tuning, prompt engineering, and evaluation using React, Typescript, and FastAPI
- Built and improved an agent and accompanying UI that could automatically optimize a foundation model for a given task using MCP, LangGraph and FastAPI
- Helped design APIs of the NeMo Microservices platform, NVIDIA's enterprise software suite for building and deploying LLMs and agents

Twitter

San Francisco, California

Senior Software Engineer, Trust and Safety

April 2018 – January 2023

- Developed internal tools for improving the safety of Twitter users using React, Typescript, and Scala
- Turned requirements into web applications used by thousands of agents working in areas of abuse, spam, child safety, hate speech, copyright, law enforcement requests, and many more domains
- Designed tool features for improving the mental well-being of agents exposed to harmful content
- Owned a React UI component library used by multiple teams to speed up the development of features

Google (Contract)

Mountain View, California

Software Engineer, Pixel

May 2016 – April 2018

- Developed code for the Live Case customization platform using Google Cloud Platform and App Engine
- Implemented a new UI using AngularJS and ES6, increasing purchase conversion rate by 30%
- Designed an image moderation service built on computer vision and machine learning APIs
- Added integrations with multiple vendor systems through a RESTful web API

VMware (Contract)

Palo Alto, California

Software Engineer

October 2015 – May 2016

- Developed new features, worked with stakeholders to improve a new release management web application built in Django and AngularJs
- Refactored the web app's frontend and implemented a Javascript framework using AngularJS
- Integrated app with Confluence and other internal web applications through a RESTful API

AltaTec

Guayaquil, Ecuador

Lead Software Engineer

September 2014 – August 2015

- Developed custom ERP software implementations using Python and the Odoo ERP platform
- Created an automatic backup process of PostgreSQL databases using Python and Amazon S3
- Supervised the deployment and maintenance of 12 cloud systems using Amazon Web Services
- Managed and trained a team of 4 software engineers to deliver fast client solutions

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ION Geophysical
Software Engineer

Houston, Texas
September 2012 – August 2014

- Developed code for a high-performance, parallel seismic data processing system in C++
- Designed and implemented various geophysical data processing modules
- Improved the memory and runtime efficiency of existing seismic processing algorithms

DornerWorks
Embedded Systems Intern

Grand Rapids, Michigan
May 2010 – December 2011

- Developed code for an open-source flight-certified operating system in C using vim
- Performed statistical analysis on the rate-of-change of open-source software

Education

Grand Valley State University
Bachelor of Science in Computer Engineering

Grand Rapids, Michigan
August 2012

Skills

- Web application development using React, Typescript, Javascript, and Python
- Agent development using LangGraph, LangChain, and Python
- LLM customization using techniques like fine-tuning, prompt-engineering, dataset engineering, benchmarks and evaluation
- UI component library development and maintenance using React, Typescript, and Storybook
- Standing up modern tooling to improve team velocity using tools like bun, OpenAPI, codegen with tools like Orval, Drizzle ORM, Playwright
- Integrating and prompt-engineering LLMs in my own development workflows using tools like Claude Code, Cursor, and Codex