

# Dan Haggerty

Detroit, Michigan  
(313) 437-1741  
[dan@dhaggerty.com](mailto:dan@dhaggerty.com)

## Experience

*NVIDIA*

*Detroit, Michigan (Remote)*

**Software Engineer, AI Research Engineering**

**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