Andrew McMullin

mcmullinboy15 • in andrew-mcmullin • • mcmullin.app

mcmullinand@gmail.com

801-897-3786

EDUCATION

Masters in Computer Science and Engineering

Aug 2021 - (December 2022)

UNIVERSITY OF MICHIGAN

• AI/ML and Parallel Computing, have advanced my understanding of python and computer systems.

Bachelor's in Computer Science & Minor in Math

Aug 2019 - May 2021

UTAH STATE UNIVERSITY (GPA: 3.9 / 4.0)

• AWS Cloud Computing covered all AWS services to pass the AWS practitioners exam.

EXPERIENCE

APPLE

Software Engineer (Intern)

May 2022 - Aug 2022

- Replaced 10 year old Hardware Tech. Compiled Memory website. In production in 3 months.
- Focused on maintainability for easiest possible future updates (Docker, CI/CD, Class arch., unit/e2e tests).
- Django backend, with Redis queue to communicate with Apple Compute queue. Built with Docker.

OPTIMA POWERWARE

Web-based Controls Engineer (Intern)

July 2021 - Aug 2021

- Developed and strategically designed controls for Goldmines to use ML models.
- Fixed Django templates and design, rebuilt to use Django API REST framework and React, for scalability.

EZSALT (Startup)

Co-Founder and Lead Developer

Nov 2019 - July 2021

- EZsalt sells devices for monitoring Water Softener salt levels on your phone. Built all software.
- Supports over 300+ users, without failures. Scaleable to thousands of new customers.
- Managed 3-4 new versions (Github), from django on AWS EC2, to Vue/Flutter/Express.js on Firebase.
- 4+ Cloud Functions for new users, messages, etc (mcmullin.app/ezsalt). 12+ other API endpoints.

OPTIMA POWERWARE

Data Controls Engineer (Intern)

May 2020 - Aug 2020

- Predicted Goldmine output quality, using Pytorch Neural Networks. Ready for production in 3 months.
- Analyzed and Tested many Neural Network configurations, (3-5 Linear Layers, 8-16 inputs to 1-2 outputs)
- Preprocessed 20,000 data entries, and eliminated manual sampling every 4 hours.

FREELANCE

Full-Stack Web Developer

June 2021 - present

- PSE: Reduced employee workload by computing Finances/Budgets with simple classes and a Flask API.
- Builders without Borders of Utah (nonprofit): New webpage (<u>formal.bwbutah.org</u>, <u>elegant.bwbutah.org</u>)

SKILLS

Python(Adv): Numpy/Pandas, PytorchJavaScript(Adv): Vue, React, Node

• JAVA/C++: Cuda, MPI, OpenMP, LLVM

• UI/UX: Figma, HTML, CSS, Material-UI

Google Cloud: VM, Functions, Firebase, gcloud

AWS: Grad. Course on All Products

Tools: Docker, Linux, Django, Flask, Redis

• Eagle Scout, the Tagalog Language