



Andrew McMullin

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EDUCATION

MASTERS IN COMPUTER SCIENCE & ENGINEERING

University of Michigan

Dec 2022

- AI/ML, Advanced Cryptography, Parallel Computing, Prototyping and Developing UI/UX Designs (figma, js).

BACHELOR'S IN COMPUTER SCIENCE & MINOR IN MATH

Utah State University

May 2021

- AWS practitioners, Logical Data Visualization Approaches

EXPERIENCE

FULL-STACK ENGINEER

Origin

Dec 2023 - present

- Took over all Backend Development in Sept 2024, and Frontend Development in Oct 2024
- Speed up development time by compiling 3 Backend codebases to be easy to understand, and improved CI/CD.
- Implemented the Campaign Module for campaigns and campaign flights.
- Converted forms and tables from Svelte to React. Used react-hook-form for reusable/dynamic components.
- Identified SQL mistakes. Fixed Dashboard data, and endpoint latency from 4s to 0.7s by optimizing the SQL.

ADJUNCT PROFESSOR

Utah State University

Aug 2024 - present

- Built and Taught course IS5700 - Advanced Client-Side Web Development with React.js
- Currently building course IS5150 - Intro to JavaScript

FULL-STACK ENGINEER (INTERN)

APPLE

May 2022 - Aug 2022

- Focused on maintainability for easiest possible future updates (Docker, CI/CD, Class arch., unit/e2e tests).
- Replaced 10 year old Hardware Tech. Compiled Memory website. In production in 3 months.
- Client-side logic (Vue.js) allowed for 10x response times, and 0 blocking notifications on errors.
- Django backend, with Redis queue to communicate with Apple Compute queue. Built with Docker.

FULL-STACK ENGINEER

FREELANCE

June 2020 - present

- Contributed to podcast automation software at startup Podflow, enhancing user experiences: podflow.ai
- Automated GoalHome LLC's payroll with Python, factoring in overtime and unique day/night pay.
- Created nonprofit website for Builders without Borders, highlighting their mission and initiatives: bwbutah.org
- Safely hosting textbook videos: prclinks.com — Calculating optimal seed quantities: beta-supra-ag.web.app

CO-FOUNDER AND CTO

EZSALT (Startup)

Nov 2019 - July 2021

- Built micro-controller with software for monitoring water-softener salt levels on your phone.
- Managed 3-4 new versions, Django (AWS EC2), Vue/Flutter (Firebase), Cloud Functions mcmullin.app/ezsalt

MACHINE LEARNING — BACKEND ENGINEER (INTERN)

OPTIMA POWERWARE

May 2020 - Aug 2020 — July 2021 - Aug 2021

- Predicted Goldmine output quality, eliminating manual sampling. Using a PyTorch NN (5 Layers, 16:1 features)

SKILLS

- **Languages:** Typescript, JavaScript, Python, Go, C++, Java, SQL, Cuda, Docker, Linux
- **Cloud Services:** Proficient in Google Cloud, and have multiple projects in AWS and Azure.
- **Tools:** GoFiber, Go Concurrency, React, Vue, Node, Express, Numpy, Pandas, PyTorch, Github, Django, Flask, Redis, MPI.

REFERENCES

Cody Anderson

Head of Engineering at Dyper
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Derrick Leach

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