

Finn Roblin

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EDUCATION

University of Michigan

Ann Arbor, MI

Bachelor of Science in Computer Science, GPA: 3.9/4.0

Anticipated December 2023

- Relevant Coursework: Data Structures & Algorithms; Honors Analysis; Machine Learning; Programming Paradigms; Intro to Computer Organization; Foundations of Computer Science; Intro to Probability; Linear Algebra; Operating Systems¹; Parallel Programming with GPUs¹; Analysis on Manifolds¹.
- Relevant Activities: Co-president @ Quantitative Investment Society; Upround Ventures; Michigan Triathlon

EXPERIENCE

Software Dev Engineer Intern

May 2023 – Present

Amazon Web Services – OpenSearch

Seattle, WA

- Build system to support executing arbitrary customer code within Data Prepper pipelines.
- Implement distributed locking service with Fargate, DynamoDB, VPC to support new initiative with engine agnosticism and improved security posture.

Research Assistant — Deep Neural Networks

June 2023 – Present

University of Michigan College of Engineering

Ann Arbor, MI

- Investigate neural collapse in multimodal learning with Qing Qu, Peng Wang, Can Yaras.

Instructional Aide — Data Structures & Algorithms

August 2022 – Present

University of Michigan College of Engineering

Ann Arbor, MI

- Teaching Assistant for EECS 281: Data Structures & Algorithms.
- Help students understand material and write cleaner code by holding office hours and lab section.
- Design test questions, labs, and projects.

Software Dev Engineer Intern

June – August 2022

Amazon Web Services

Virtual, CA

- Developed processors for Data Prepper, an open source unified observability ingestion solution for AWS OpenSearch.
- Implemented a JSON processor and CSV processor & codec which support 100+ internal migrations away from competitor's product.
- Utilized processors to create end-to-end pipeline example of ingesting and analyzing AWS CloudFront Access Log location data.

Junior Fellow

June – August 2019

Fast Forward

San Francisco, CA

- Aided operations of Fast Forward's Accelerator, a startup program that has accelerated 70 technology nonprofits.
- Streamlined job postings database using Amazon Mechanical Turk automation, improved Wordpress website.
- Communicated with donors, supported Accelerator event logistics, and designed new efficient media database.

TECHNICAL SKILLS

Languages: C++, C, Python, Java, SQL, JavaScript, TypeScript, Scheme, Prolog, Git

Frameworks: React.js, Django, Node.js

Libraries: Pandas, Tensorflow, Numpy, Matplotlib

PROJECTS

Zenblock | *Typescript, Express/Node.js, React, PostgreSQL, Redis, Docker*

[GitHub](#)

- Develop full-stack productivity web application for timeblocking and tracking tasks
- Winner of a Contrary Capital grant through Build Blue accelerator program
- Integrate with Google Calendar API to sync user schedule and aid daily planning
- Serve content using GraphQL and PostgreSQL database, utilize Redis to manage session state

Privacy-protecting Google Nest Modification | *Arduino, EasyVR*

[GitHub](#)

- Modified Google Nest smart speaker with Arduino and voice recognition plugin
- Reprogrammed Nest mute switch to prevent data collection of ambient noise

¹Fall 23