

Education

University of Michigan Ann Arbor, B.S. [Computer Science](#)

Expected Graduation: [May '21](#)

➤ relevant coursework: Data Structures & Algorithms, Computer Security, Operating Systems, Web Systems GPA: [3.33/4.00](#)

Technologies

➤ C/C++, OCaml, Python, Javascript, Bash, Java, HTML/CSS, Linux, Git, Vim, Docker, Research, Agile

Work Experience

Google - Software Engineering Intern (Google Cloud Platform)

May '20 - now

➤ contributing to application monitoring [open-source](#) code (OpenTelemetry, [C++](#) SDK and Collector in [Golang](#)) used at companies such as Google, Splunk, and Datadog

The Aerospace Corporation - Software Development Intern (Small Satellite Department)

May '19 - Aug. '19

➤ engineered [React](#) and [Redux](#) state management updates to effectively view small satellite statuses and send commands
 ➤ sped up interface updates and communication between [websocket](#) & [packets](#) by 100%+ while eliminating handler violations
 ➤ deployed [Dockerized](#) site with nginx load-balancer and custom DNS to [Linux](#) cloud server for use across the department
 ➤ debugged [Python Django](#) backend issues with packetization while improving [logging](#) and [documentation](#)

University of Michigan - Research Assistant (Dr. Florian Schaub, School of Information)

Oct. '18 - May '19

➤ computed data-driven interactive visualizations using [React](#) and [Plotly](#) by cleaning JSON data and calculating statistics to demonstrate holes in student data sharing protections and opt-out options within university legal statements under FERPA

Projects

Gradual ALFA-ML

Jan. '20 - Mar. '20

➤ implemented a functional programming language using [OCaml](#) with function, number, boolean, product, and unit types
 ➤ integrated additional functionality like function application, gradual typing, branching, and mutable references in memory
 ➤ programmed type synthesizers, type analyzers, and statement evaluators that handled various unary and binary operators

Wikipedia Search Engine

Mar. '19 - Apr. '19

➤ created a robust [distributed](#) and [multithreaded](#) system between workers and masters over [sockets](#) to quickly process tasks
 ➤ developed a scalable Hadoop-like [map reduce](#) server that performed information retrieval using tf-idf and PageRank scores
 ➤ completed search engine stack with [React](#) frontend and [SQLite](#) database deployed to [Amazon Web Services](#) ([Python](#) backend)

Leadership

Michigan Hackers - Logistics Executive, Creative Director, Senior Advisor

Jan. '18 - now

➤ mobilized dedicated membership ([top 50 students averaged 14 attendances](#) each) by adding resources and incentives (team structure, competitions, attractive swag, media presence, etc) to enrich student professional, technical, and social development
 ➤ [doubled attendance to 300+ unique semesterly sign-ins](#) and dedicated membership average from [20 to over 50](#) students
 ➤ [reduced time spent on attendance data parsing by 400%](#) through innovating a comprehensive csv processing React interface
 ➤ [advocated actively to support minority students](#) through a women in tech channel (resources and notifications for programs, scholarships, and conferences) and other events like collaborations with Girls in Electrical Engineering and Computer Science

Other

➤ [Rewriting the Code Fellow](#)

Nov. '19 - now

➤ [National Scholarship Winner](#) from Rove Pest Control (sole winner out of 1000+ applicants)

Apr. '17

➤ [Girls in Electrical Engineering & Computer Science](#) - High School Outreach and Marketing member

Jan. '18 - now

➤ [Vietnamese Student Association](#) - Cultural Show Performer, Member

Sep. '17 - now

➤ [Instructor-endorsed](#) for Data Structures & Algorithms, Web Systems, Computer Organization, Computer Security class forums

➤ [Interests](#) in civic engagement, sustainability, design, PC gaming, Pokemon