

Paul Luo

Permanent Address

12779 Lantana Ave
Saratoga, CA 95070

<https://poe0821.github.io/>

paulluo@umich.edu

408-981-0821

Current Address

1300 S University Ave, Apt 308
Ann Arbor, MI 48104

Education

University of Michigan | Ann Arbor, MI

Bachelor of Science – Computer Science

April 2021

GPA: 3.532/4.0

- **Current Coursework:** Information Retrieval and Web Search (**EECS 486**), UI Development (**EECS 493**)
- **Relevant Coursework:** Operating Systems (**EECS 482**), Advanced Operating Systems Projects (**EECS 498**), Human-Centered Software Design and Development (**EECS 497**), Software Engineering (**EECS 481**), Database Management Systems (**EECS 484**), Introduction to Computer Security (**EECS 388**), Foundations of Computer Science (**EECS 376**), Computer Organization (**EECS 370**), Data Structures and Algorithms (**EECS 281**), Programming and Data Structures (**EECS 280**)

Work Experience

Student Software Engineer | General Motors

Jan 2020 – Dec 2020

- Designed a wireframe process and Implementing a generative algorithm using Python and ANSYS modules to optimize heatsink topology in electronic devices
- Applied extensive research on relative topics including evolutionary and genetic algorithms to deliver detailed bi-weekly presentations following the Agile development process
- Discussed and communicating with team members and mentors about project planning as well as validation strategies such as integration/regression testing and informal code review

Computer Science Intern | Coding4Youth

Jun 2019 – Aug 2019

- Educated and Inspired students K-12 about the basics of computer science and topics relating to software development
- Assisted students with understanding computer science concepts by designing and constructing games, discussing proper coding practices, and reviewing code

Skills

- **Programming Languages:** C++, Python, C, HTML, CSS, JavaScript, SQL, Golang, Java
- **Frameworks/Platforms:** Windows, OSX, Linux, Git, Bash, MongoDB, React, Express, Node, AWS, GDB
- **Spoken Languages:** English, Chinese (Mandarin), Spanish

Projects

Network File Server

Nov 2020

- Applied knowledge of multi-threading, sockets, hierarchical file systems, security protocols, and client-server systems to develop a program in C++ that serves file system request from a client interface
- Used C++ standard mutex and thread library to correctly apply mutual exclusion and concurrency
- Handled client-side and server-side requests with Linux TCP/IP socket programming

Business Review App

Jul 2020

- Created a web application that functions closely to Yelp using React.js for the front-end and Node.js for the backend, integrating MongoDB and AWS for the database and deployment
- Followed RESTful API routing, and used Express and Passport for secure HTML requests

Social Media Simulator

Oct 2019

- Designed a relational database using SQL which emulates the popular social media platform Facebook
- Implemented SQL scripts in Oracle and JavaScript programs with JDBC that ranged from querying mutual friends to looking up commonly tagged photos from specific events and hashtags

Extracurriculars

- UM ACHA Division II Men's Ice Hockey Team
- Society of Asian Scientists and Engineers

Sep 2017 - Present

Sep 2017 - Present