

Jonhan Chen

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Education

University of Michigan, B.S.E. Computer Science

Aug 2020 - May 2023

GPA: 3.75/4.00 | Dean's List | University Honors

Clubs: External Vice President of Tau Beta Pi, Engineering Honor Society | Google Student Developer Club | MHackers

Courses: Data Structures and Algorithms | Web Systems | Introduction to Computer Organization | Foundations of Computer Science | Practical Data Science for Engineers | Practical Programming in Java

Experience

Amazon - Arlington, VA

May 2022 - Aug 2022

Incoming Software Development Engineer Intern

Yazaki North America, Canton, MI

Jan 2022 - Present

Student Research Intern

- Developing a production ready smart wire harness using open-source Bluetooth and WiFi protocols and devices

Ricardo PLC, Van Buren, MI

May 2021 - Aug 2021

Controls Intern

- Implemented the first DevOps Pipeline at Ricardo with Gitlab CI/CD, OpenCV (C++), Google Test, g++, and Docker, used by 5+ employees for a \$20,000+ Harley Davidson consulting contract
- Coded the graphical user interface for an automotive heads-up display, currently in use for the Toyota Project Portal Hydrogen Fuel Cell Truck.
- Built a System-on-Architecture Linux and IMX8 board demonstration running classic and adaptive AUTOSAR demonstration for 5+ external companies

Aflac - Ann Arbor, MI

Nov 2020 - Aug 2021

Business Analyst Intern

- Developed a customized Android application used by over 10 agents to assist with managing client-related tasks to improve employee response effectiveness by over 50%
- Analyzed sales data using R and advised management, leading to improving call efficiency for over 15 employees and attracting over 50+ new clients
- Managed the software distribution, configuration, customization, and usage of the pilot program Outreach.io, worth over \$10,000, for over 10 team members to help track client and sales data

Future of Programming Lab - Ann Arbor, MI

Nov 2020 - Aug 2021

Student Researcher

- Worked on adding features to predictive programming language Hazelnut using Reason and OCaml
- Implemented the recursion warning protocol to detect number of recursive calls and warn against / prevent infinite recursion

Projects

Dive.fyi, Social Media Website

Aug 2020 - Present

- Co-developed initial code infrastructure for Dive.fyi, including implementing post creation, video playback, and profile creation for over 150 incoming users using HTML, CSS, Python, Flask, Jinja2, AWS, and SQLite.
- Integrated Elasticsearch, an open-source search engine, into a custom search bar.

Skills

C++ | C | Java | Python | PHP | HTML | CSS | MATLAB | Simulink | ARM Assembly | R | Verilog | LaTeX | AWS | Flask | Jinja2 | SQL
SQLite | Git | Gitlab CI/CD | Google Test | SCONS | Subversion | Docker | Android Studio | Linux