

Peyton Okubo

Lakeville, MN

☎ (+1) 612-860-9250 | ✉ okubo012@umn.edu | 🏠 pokubo.xyz | 🌐 peyton-okubo

Education

University of Minnesota

B.S. IN COMPUTER SCIENCE

- GPA: 3.73

Minneapolis, MN

Sep 2019 – Dec 2022

Skills

Code

Python, Javascript, C, C++, OCaml, Java

Web

React, Node.js, Express.js, REST API, HTML, CSS

Tools

Git, Docker, SQL, Shell, Unix, Nix

Work Experience

University of Minnesota

UNDERGRADUATE RESEARCH ASSISTANT

- Developed and documented a benchmarking program to produce over 150,000 data points with Python, Pandas, Gephi, and Shell scripting.
- Analyzed, and presented benchmarking data to communicate results with stakeholders.
- Authored and revised results section of research paper to publish performance findings.

Minneapolis, MN

Jun 2022 – May 2023

University of Minnesota

TEACHER'S ASSISTANT

- Worked one on one with students to increase their understanding and motivation.
- Developed grading scripts to streamline grading and provide feedback to students with Python, PyGithub, and Google Apps Script.
- Managed labs of 30 students, including working through examples and answering questions.

Minneapolis, MN

Aug 2021 – Dec 2021

Hy-Vee

AISLES ONLINE

- Assisted customers with locating products and resolving order errors.
- Organized and managed pickup rooms as contactless orders drastically increased due to Covid-19.

Lakeville, MN

Jun 2020 – Aug 2021

Projects

Personal Site

A REACT APP, MY PORTFOLIO AS A DIGITAL ZINE

- Implemented proportional resizing to scale elements in response to arbitrary browser dimensions with React and CSS Modules.
- Utilized cookies to display visual usage hints to provide an intuitive experience for infrequent users.
- Enabled faster user experiences using client-side routing with React Router.

Jun 2023

Turi

A SELF-DRIVING, LINE-FOLLOWING ROBOT WRITTEN IN C++

- Developed an IR sensor bar driver to detect track lines.
- Implemented proportional control to optimize the line-following path for a ten-fold speed improvement.
- Interfaced with vehicle hardware to program obstacle avoidance.

May 2022

Open Source Contributions

Flavours

A BASE16 COLOR SCHEME MANAGER FOR POPULAR UNIX APPLICATIONS

- Implemented most requested feature: configurable sources.
- Implemented support for declarative color scheme and template source configuration with Rust and TOML.
- Made program more accessible to users by following conventional declarative configuration philosophies.

Sep 2022