

Aidan Hopper

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EDUCATION

- **Bachelor of Science in Computer Science**, 2022 to 2025 (exp). Pullman WA, 3.32GPA.
Relevant Coursework
Data structures and Algorithms, Computer Architecture.
- **Bachelor of Science in Computer Science**, 2020 to 2022, Ellensburg WA.

EXPERIENCE

Schweitzer Engineering Laboratories

Aug 2023 — Current

Application Engineering Intern

Pullman, WA

- Built a UDP multicast network testing utility capable of deploying to multiple machines to test for packet loss.
- Sped up a disk testing utility by 6 times saving IT team many hours testing drives.
- Working 15 hrs/week over the academic year.

Fred Meyer

2 years

Customer Service Clerk

Sumner, WA

PROJECTS

- **Linux Install Script**, personal project, github.com/aidanhopper/dotfiles, Bash, August 2022.
POSIX-compliant shell script to install relevant programs to recreate my preferred Linux setup on any install.
 - Script is POSIX compliant to decrease the runtime and to not be dependent on a **bash** shell being present.
 - Uses **grep** and **sed** to find the distribution of the system to use the system package manager.
 - Uses a POSIX array of strings to store names of required packages.
 - Makes required directories for sym-links and uses GNU Stow to manage them.
 - Executes relevant commands to set up the system programs with a configuration file.
- **Chess**, personal project, github.com/aidanhopper/chess, Python, August 2021
Chess written in Python that uses Pygame for a graphical front end.
 - Uses a list to represent the state of a chess board.
 - Front end takes the fen string generated by the chess engine and displays it on the screen.
 - Back end takes a fen string and attempted move, parses the string into usable data, and generates a new fen string if the attempted move is valid.
 - Uses **dictionary** data structure to pass around information to functions.
 - Uses strings to communicate information about chess moves.
- **Quiz Website**, hackathon project, Javascript, January 2023, unfinished.
Worked in a four person team to build a quiz platform that pulls questions from a **database** and displays them on the site. Written in react for the frontend and django for the backend.

SKILLS

- **Languages and Tools**
C, Python, Linux, Bash, Java, Sockets, Web Scraping, Javascript, AWS.
- **Soft Skills**
Problem-solving, written & spoken communication, creative, reliable, team oriented, critical thinking.

CLUBS

Robosub, 2022 — Current

- Migrated the wiki from doku wiki to git wiki using shell commands.
- Recommended the CS team to doxygen to help with documentation issues.
- Bug fixing the camera driver.