

KAYLA ROSE HOM

Elk Grove, CA 95758

(916)-385-3616 | kayla.r.hom@gmail.com | [linkedin.com/in/kayla-hom/](https://www.linkedin.com/in/kayla-hom/) | github.com/kalechip22/

OBJECTIVE

Computer Science and Engineering undergraduate student seeking an internship to utilize my education, work experience, and programming skills to develop applications for companies striving for innovation and progress.

EDUCATION

- University of California, Davis** Expected: June 2024
• Bachelor of Computer Science and Engineering GPA: 3.82
Minor in Technology Management
Courses: Operating Systems, Data Structures, Web Development, Object-Oriented Program, Algorithm Analysis, Computer Architecture

SKILLS SUMMARY

- **Languages:** C, C++, Java, Python, HTML, CSS, JavaScript, SQL, Scala, R, Bash, VIM, x86, RISC-V
- **Frameworks:** ReactJS, React Native, Django, Flask, NodeJS
- **Tools:** GIT, SQLite, Google Cloud, Verilog, Chisel, Quartus II, OrCAD, Wireshark
- **Platforms:** Linux, Ubuntu, Windows, MacOS, iOS, Arduino, Raspberry Pi 3, Linkbot Robotics
- **Soft Skills:** Problem-Solving, Leadership, Communication, Time Management, Adaptability, Teamwork, Discipline

EXPERIENCE

- **UC Davis C-STEM Center** Davis, CA
C-STEM Math and Robotics Intern July 2022 - Present
 - **Web Development:** Design and implement a new layout for the C-STEM website based on new data and media created to market the RoboBlocky program
 - **C-STEM Activities:** Create programming, math, and robotic related lessons for students using the C-STEM RoboBlocky platform which is based on C and C++
- **Juni Learning** Remote
Computer Science Instructor May 2022 - Present
 - **Lesson Planning:** Provide curated one-on-one lesson plans to teach students programming languages including Python, JavaScript, and Java
 - **Nurturing Education:** Cultivate a welcoming environment for youth to become passionate with Computer Science and programming
 - **Communication:** Maintain thorough records for each student and communicate with parents on a regular basis, providing updates weekly updates on student progress
- **Apple** Elk Grove, CA
iOS Tier 1 Advisor July 2019 - March 2020
 - **Customer Support:** Provided personalized and efficient customer support for Apple devices including products such as the iPod, iPhone, iPad, and Mac
 - **Troubleshooting:** Resolved customer's technical issues with customized and thorough step-by-step guidance, diagnostics tests, and screen sharing

PROJECTS

- **Pac-Man | HTML, CSS, JavaScript** December 2022
Recreation of the classic game Pac-Man including boundary detection, custom map creation, and moving animations. The Pac-Man ghost's movement use AI to decide which direction to turn when arriving at each intersection.
- **Bash Shell | C++, Operating Systems** October 2022
Terminal-based program that implements a basic command line and allows the user to run all Unix commands. Users can utilize features such as pipe-lining, input redirection, output redirection, and a directory stack.
- **TikTok Battle | HTML, CSS, JavaScript, SQLite, Node.js** May 2022
Interactive web application that allows users to upload TikTok videos to a database via URL links. Users then play a live multiplayer game supporting up to 300 people where they view and vote the best TikTok video.
- **Live @ The Pantry | HTML, CSS, JavaScript** January 2022
Web application that focuses on providing live updates of grocery items available at the ASUCD Pantry. Allows staff members at The Pantry to easily update the status and stock of certain grocery items individually or by groups.
- **Vaccine Distributor | C++, Algorithms** May 2021
Terminal-based program that uses vectors to build a graph of airport and city distances with Dijkstra's algorithm. Then calculates the max number of vaccines available for delivery to specified cities based roads and sink values.
- **COVID-19 Connections | C, HTML, CSS, JavaScript, Google Cloud** August 2020
Website providing relevant information about COVID-19 for people in the US. An interactive map is provided to find helpful government services for their state and also view the current COVID-19 case severity for certain cities.

HONORS AND AWARDS

- Best Healthcare Hack Winner at Helloo Hacks September 2020
- Hewlett Packard Enterprise CodeWars 4th Place Novice Winner May 2020