Helen Lin

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EDUCATION

UNIVERSITY OF CALIFORNIA SAN DIEGO   **La Jolla, CA**
Intended: B.S. in Mathematics-Computer Science   *Jun 2025 (Expected)*
GPA: 4.0/4.0
Relevant Coursework: Basic Data Structures and Object-Oriented Design, Computer Organizations and Systems Programming, Design and Analysis of Algorithms, Advanced Data Structures, Software Engineering

SKILLS

- **Programming Languages:** Java, C++, Python
- **Languages:** bilingual English & Chinese

EXPERIENCE

STUDENT RESEARCHER   *Apr 2023 – Present*
Sonic Arts Research and Development at UC San Diego
- Converting fixed beam forming code in **MATLAB** to adaptive beam forming code in **Python**

DEVELOPER   *Nov 2021 – Present*
Triton Software Engineering Club
- Developed a mobile chess app and data visualization website for non-profit organizations with an agile team of 10+
- Programed the mobile app so that users learn and play chess against each other using **Expo**
- Utilized **React Native** and **React Navigation** to create the frontend of the mobile app
- Implement frontend pages of the website with **React,** embed visualizations using **Tableau,** and utilize **Fetch API** to connect and retrieve data from the backend

COMPUTER SCIENCE TUTOR   *Jun 2021 – Jul 2021*
Harvey Mudd College
- Tutored 30+ computer science students during daily office hours by guiding them through topics like classes and objects, algorithms, data structures, and machine learning in **Python**
- Graded, debugged, and gave feedback on daily homework assignments

PROJECTS

FORTUNE TELLING APP (COURSEWORK)
- Designed and developed card-based fortune telling website from scratch with agile team of 10 using **HTML, CSS,** and **JavaScript**
- Developed and styled menu page, buttons used throughout the project, and animation for selected cards

MONOPOLY GAME (PERSONAL)
- Created a terminal-based game using **Python** that allows users to play Monopoly using Richman rules
- Supports up to 8 players at once and color codes terminal output to enhance user experience

ACTIVITIES

LIGHTBOARD OPERATOR/LIGHTING CREW CHIEF   *Dec 2017–Feb 2021*
Technical Theater
- Led lighting crew of 10+ students in rigging and focusing the lights of 2 plays and 3 dance shows
- Programmed and Operated lightboard for all light changes during each performance