

Howard Lin

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Education

University of California, San Diego

Expected June 2026

Bachelor of Science in Computer Science - GPA: 3.85

- **Relevant Coursework:** Data Structures and Algorithms, Discrete Structures, Software Engineering, Operating Systems, Object-Oriented Programming, Machine Learning, Artificial Intelligence, Computer Graphics, Computer Security, Calculus I-III, Database Applications, Data Analysis

Experience

Software Engineer Intern | MSI Computer Corp. (MSI USA)

June 2025 – Sep 2025

City of Industry, CA

- **Increased marketing efficiency** by developing an **automated pipeline (Flask/TypeScript)** that uses **LLM-powered summarization** and **web scraping** to replace manual data collection, leveraging **Supabase** and **Render** for scalable deployment
- **Automated manual data entry** by developing a **Flask** and **TypeScript** tool that **extracts structured data from PDFs** into Google Sheets and Excel, **reducing processing time** and **minimizing human error**
- Partnered with designers to **redesign** the Student Program landing page, streamlining the interface for **better user engagement**

Coding/Robotics Instructor | Magikid Robotics Lab

July 2023 – January 2024

San Marino, CA

- Lead summer robotics classes for elementary/middle school students
- Organized and prepared class material for lessons, and managed classes of about 3-6 students
- Taught VexGo, Lego WeDo 2.0, Python, Scratch

Math Tutor | MyTutor Learning

April 2023 – June 2023

Remote

- Assisted students with homework and conceptual questions
- Prepared custom teaching material to engage with individual students
- Analyzed each student's weaknesses to properly and effectively provide support and assistance

Personal/ Team Projects

Article Summarizer | Python, TypeScript, Flask, HTML, CSS, Supabase, Render, Groq API Live Demo

- Developed a configurable web scraping pipeline that adapts to user-specified websites and generates tailored article summaries and analysis based on user input
- Implemented a relational database using Supabase to enable users to store and retrieve summarized articles along with search-specific metadata
- Improved the Marketing Team's efficiency in developing targeted, specialized graphics and advertising campaigns

Heart Disease Predictor | Python, Pandas, NumPy, Scikit-learn, Seaborn

Jupyter Notebook

- Led a team of 5 to complete a quarter long machine learning project
- Utilized pandas to read and clean a large CSV dataset for analysis and modeling
- Utilized seaborn to create visual plots and graphs for exploratory data analysis
- Trained a logistic regression model on the data and achieved a precision of 96% for identifying negative heart disease cases and a recall of 70% for positive heart disease cases

Music/Movie recommender | C++, Python, Valgrind, Gtest

- A quarter long project developed in a team of 4
- Utilized different development methods such as Gtest for unit testing, Valgrind for memory leaks, and Python and C++ for back-end development
- Able to take in user specific criteria, filters, and preferences, pass that data into IMDb and Spotify's API, and return a movie or song recommendation
- The project was a collaborative effort and refined communicative as well as team working skills

Technical Skills

Languages: Python, JavaScript, TypeScript, C++, C, Java, HTML, CSS

Frameworks/Libraries: React, Flask, Node.js, Express.js, NumPy, Pandas, Sklearn, Matplotlib

Technologies: Git, Github, VS Code, Supabase, Render

Communication: English, Mandarin Chinese