

# MAI HOANG

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## EDUCATION

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### Stanford University

Expected Graduation: June 2025

#### BS Symbolic Systems

- Courses: CS107 (Computer Systems and Organization), CS109 (Probability for Computer Scientists), CS103 (The Mathematical Foundations of Computing), CS193X (Web Programming Fundamentals)

## PROJECTS

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### Sudoku Solver

#### Personal Project

- Programmed a backend, recursive backtracking program in C++ to find and display the solution to a user-supplied Sudoku problem

### Popcorn App

#### Personal Project

- Developed cross-platform mobile application using movie data API, JavaScript, HTML/CSS, and React/Expo to display current movie showings

### Huffman Coding

#### Class Project

- Developed an end-to-end compression-decompression tool that employs Huffman coding to optimally compress files

## EXPERIENCE

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### Research Assistant

Dec 2021 - June 2022

#### Stanford Human-Computer Interaction Group

- Investigated physiological signals underlying ADHD, specifically Electrodermal Activity (EDA) using wearable technology
- Developed Python scripts to streamline management and analysis of large quantities of real-time biometric data from 40+ participants
- Collaborated with primary investigators to design study protocol, including developing assessments, determining sample size, and recruiting participants

### Program Manager

June 2021 - August 2021

#### FirstGen Scholars

- Created and implemented comprehensive 6-week curriculum including workshops and seminars to help first-generation high school students navigate college admissions
- Collaborated closely with 12+ students to complete their applications, resulting in student admission to institutions such as Harvard, Brown, and UCLA
- Coordinated with community partners and organizations like the University of San Diego to connect students to resources and opportunities such as campus tours