

# Aiden Chang

aidenchang@gmail.com • 650-283-1336 • Palo Alto, CA • www.aidenwchang.com • linkedin.com/in/aiden-chang

## EDUCATION

### Carleton College

GPA: 3.6 (Major 3.7)

Northfield, MN

Bachelor of Arts in Computer Science

Jun 2023

**Related Coursework:** Data Structures, Math in CS, Algorithms, Software Design, Computer Security, Computer Systems, Multivariable Calculus, Linear Algebra, Operating Systems, Data Science, Programming Lang Design & Imp, Computability and Complexity, Linear Regression, Computer Graphics, AI, Parallel and Distributed Computing, ODE

## TECHNICAL SKILLS

**Programming & Tools:** Python/C (intermediate), Java/HTML/PyTorch/R/Unreal Engine/C/x86-64/SQL (novice)

## WORK EXPERIENCE

### SWE Intern, Charles Schwab/TD Ameritrade

Jun 2022 – Aug 2022

- Produced a full stack development monitoring the status of internal and external programs and servers
- Refactored and tested *thinkorswim* software originally developed in Bash and converted to Python
- Automated the verification process of testing third-party connections
- Researched network protocols, parallel programming, and full software development cycle
- Tools used: Gitlab, Confluence, and Agile software development.

### Research Assistant, Carleton College

Mar 2022 – Jun 2022

- Developed a custom programming language that drives the simulation engine for the Hennepin system  
Prof. Ryan presented as part of his PhD thesis

### Product Operation Software Engineer Intern, Dexterity Inc.

Jun 2021 – Aug 2021

- Identified and reported bugs in the robotic arm's hardware and software on-site which increased the robot's picks from 1000 to 1600 per hour
- Logged errors in material identification to aid ML in the error detection system

### Recruiting Assistant, Carleton College

Jan 2020 – Jun 2021

- Created a Python program to automatically manipulate recruit lists to increase efficiency by 2000%

## TECHNICAL PROJECTS

### Self Learning Snake

- Created an AI that uses Reinforcement Learning to optimize the gameplay for the game snake.

### Portfolio Website

- Produced a portfolio website using Bootstrap 5, HTML, and CSS.

### Heart Disease Predictor

- Constructed a website that uses the KNN machine learning algorithm to predict heart disease given the individual's physiology

### COVID-19 Website

- Coded front-end and back-end (Python, JS, HTML, SQL)
- Used Python to create a flask server and SQL to retrieve data from local database

## LEADERSHIP & EXTRA CURRICULAR ACTIVITIES

### President, Korean Student Association

Dec 2021 - Present

- In charge of recruiting members, organizing, and funding events

### Carleton College Varsity Football Team

Jun 2019 – Present

- Starting Running Back(1769 all purpose yards, 17TDs) Most all purpose yards on the team
- Most improved player award for the Carleton football team
- MIAC Academic All-Conference
- Head of Computer Science tutoring for football underclassmen - tutoring center