

Aiden Chang

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

EDUCATION

Carleton College Bachelor of Arts in Computer Science	GPA: 3.6 (Major 3.7)	Northfield, MN Jun 2023
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TECHNICAL SKILLS

Programming & Tools: Python(Advanced), C(Intermediate), Java/HTML/R/Unreal Engine/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 – Present

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

TECHNICAL PROJECTS

Cyber Sleuth - Senior Capstone Project

- Built an application with a Python GUI to create web app profiles, detect apps from internet traces, and generate detailed reports and graphs

Self Learning Snake

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

Chess AI

- Constructed an AI to play chess using minimax and alpha-beta pruning through a GUI and discord

Heart Disease Predictor

- Constructed a website that uses supervised learning 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

Korean Student Association Dec 2021 - Present

- President - 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