

Aiden Chang

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EDUCATION

Carleton College GPA: 3.6 (Major 3.7) Northfield, MN
Bachelor of Science in **Computer Science (Mathematics Minor)** Jun 2023
Related Coursework: Data Structures, Math for CS, Algorithms, Software Design, Computer Security, Computer Systems, Multivariable Calculus, Linear Algebra, Operating Systems, Data Science, Programming Lang Design & Imp, Computability and Complexity, Ordinary Differential Equations, Linear Regression, Computer Graphics

TECHNICAL SKILLS

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

WORK EXPERIENCE

Charles Schwab, Technology Intern Jun 2022 – Aug 2022

- Researched, refactored, and tested *thinkorswim* software originally developed in bash and converted software to python
- Automated the verification process of testing third party connections
- Worked on full stack development of monitoring the status of internal and external programs and servers
- Researched and became familiarized with various network protocols, parallel programming, and full software development cycle

Carleton College Research Assistant for Prof. Ryan 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

Dexterity Inc., Product Operation Software Engineer Intern Jun 2021 – Aug 2021

- Identified and reported bugs in the robotic arm's hardware and software on site which increased the robot's picks per hour from 1000 to 1600 per hour
- Logged error detection system database for ML to accurately identify materials that the system identifies

Carleton Football, Recruiting assistant Jan 2020 – Present

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

TECHNICAL PROJECTS

Pathfinder Simulation Fall 2022

- Created a visual simulation of the A* algorithm given obstacles using python.

Scheme Interpreter Spring 2022

- Created a program that interprets a scheme program using C.

Heart Disease Predictor Winter 2021

- Created a website that uses KNN machine learning algorithm to predict if an individual would have heart disease based on the person's physiology(using R).

COVID-19 Website Winter 2020

- Created a website that displays state covid data 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

Leadership Jun 2020 - Present

- President of the Korean Student Association at Carleton College
- Head of tutoring for the underclassmen in Computer Science for football

Carleton College Varsity Football Team Jun 2019 – Present

- Starting Running Back(809 all purpose yards 2021-22 season, 8TDs) Most all purpose yards on the team
- Most improved player award for the Carleton football team (2021-22 season)