

# Charlotte Wang

charwang121@gmail.com

## EDUCATION

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### **Carnegie Mellon University - School of Computer Science**

August 2021 - May 2025

Bachelor of Science in Computer Science

**QPA: 3.93/4.0**

**Activities:** CMIMC(Software Committee Chair), Fun With Robots(98-012) Instructor

**Coursework:** Intermediate Deep Learning(10414), Markov Decision Processes(15895), Computer Systems(15213), Computer Vision(16385), Algorithms(15451), Machine Learning(10-315), Parallel Programming(15210), Theoretical CS(15251), Data Structures and Algorithms (15122), Math Foundations for CS (Discrete), Matrices and Linear Transformation(21241), Multidimensional Calculus(21-268), Probability(36-218)

### **Acton Boxborough Regional High School**

September 2017 - June 2021

Class scholar (top 10 out of 500)

GPA: 4.0/4.0

## EXPERIENCE

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### **Software Engineering Intern, Citadel**

**Jun 2023 - Aug 2023**

- Design, implementing and deploying a large data volume trade finder service for the post-trade team.
- Improved speed of current query workflow by 700x
- Built with Java, Apache Kafka, gRPC, rocksDB and kubernetes

### **Winter Intern, Hudson River Trading**

**Jan 2023 - Jan 2023**

- Implemented order book system for trading in C++
- Developed signals and trading strategies for Brazilian equities.

### **Software Engineering Intern, TriNetX**

**May 2022 - Aug 2022**

- Designed and implemented a new analytic feature to extract long-term patient lab value trends from electronic healthcare records using machine learning
- Worked with a team of 6 engineers on dynamically producing data sets for a notebook environment.
- Build with Spring Boot(Java), Rust, Python, Go, Cypress, React JS, and Redux.

### **Teaching Assistant, 15-150 (Functional Programming)**

**Aug 2022 - Dec 2022**

- Responsible for content creation, holding weekly office hours and recitations, and grading student work

### **Research Assistant, CoEX Lab at CMU**

**Jan 2022 - May 2022**

- Full-stack development for a proposal-writing website to help freelancer negotiation.
- Made with React JS, Material UI, and Firebase.

### **Noctem Development**

**June 2019 - June 2021**

- Founded non-profit organization hosting competitive programming competitions for high school students
- Designed and built main organization website and grader on React, MongoDB, and Fastify.

## AWARDS

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**HackCMU - 1st Place** - Mapping student dining hotspots with machine learning, built on Flask and Pug.

**RedRobot Hackathon - 1st Place**

**HackExeter - 2nd Place**

**AIME** (American Invitational Mathematics Examination) Qualifier

**5th Place Team** at 2021 National Science Olympiad Tournament

**2 Individual Medals**(Disease and Sounds of Music) at 2021 National Science Olympiad Tournament

## SKILLS

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Java, Android Programming, Python, numpy, scikit-learn, C, C++, Rust  
Linux, Git, HTML, CSS, Javascript, React, MongoDB, Julia, LaTeX, Django