

SIYUAN CHEN (SHAWN)

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EDUCATION

CORNELL UNIVERSITY, COLLEGE OF ARTS AND SCIENCES

ITHACA, NY

Intended Major: Computer Science

Expected Graduation: May 2024

GPA 3.88 | Dean's List

Coursework:

- Object-Oriented Programming and Data Structures
- Data Structures and Functional Programming
- Introduction to Computing Using Python
- Introduction to IOS Development
- Basic Engineering Probability & Statistics
- Discrete Structures
- Materials: the Future of Energy
- Differential Equations for Engineers
- Multivariable Calculus for Engineers
- Honors Electricity and Magnetism
- Honors Mechanics and Special Relativity
- Oscillations, Waves and Quantum Physics
- Mathematical Physics
- Linear Algebra

RELATED EXPERIENCE

COMBAT ROBOTICS AT CORNELL

ITHACA, NY

Firmware Subteam Member

Oct 2021 – Present

- Design circuit, test sensors and modules, and build remote weapon lock and power-on for 12-lb combat robot
- Create testing procedures, build test box to safely test movement and weapon capability of 12-lb combat robots
- Assist in implementing tracking and movement algorithms to make the combat robot fully autonomous

CORNELL SCIFILAB

ITHACA, NY

Research Assistant

Feb 2022 – Present

- Assist in silent-speech recognition project that detects verbal commands based on changing facial contours
- Discuss other related research publications, learn about algorithms, machine learning and computer vision
- Plan to start new speech-recognition research project in summer 2022

EUROPE AND AMERICA DAYINGYONG MATERIAL TECHNOLOGY COMPANY

NANJING, CHINA

Manufacturing Group Intern

Summer 2021

- Worked in the nickel spattering materials recycling and preparation process under the manufacturing team
- Recycled used spattering materials by adhering new silicon pieces to copper backboard using liquid indium
- Assisted in the making of new spattering material products by preparing graphite packaging materials

CoTRUST TECHNOLOGY, CO

NANJING, CHINA

Technology Intern

Summer 2019

- Assisted manufacturing team in programming and assembling Programmable Logic Controllers for customers
- Worked in the technical team to master the skill of soldering, assembling, testing circuit board
- Visited various business partners that manufacture industrial robotic arms, auto-cutting line and auto-sorting system

OTHER EXPERIENCE & ACTIVITIES

BATTLESHIP GAME PROJECT

ITHACA, NY

Developer

Jan 2022 – Present

- Build a text-based battleship game model using OCaml in a team of four
- Design top-level game structure and the interactive command-line interface with engine that parses user input

[Github link](#)

SHOWTRACKER APP PROJECT

ITHACA, NY

Frontend Developer

September 2021 – Present

- Design an app that tracks user's TV show watchlists using Swift in a team of five
- Create frontend multi-view layout GUI with navigation and delegation that can network with backend database

[Github link](#)

SKILLS & INTERESTS

- Technical: Java, Python, OCaml, C++, Swift, HTML, Arduino, Soldering, LaTeX
- Languages: Fluent in English and Mandarin
- Interests: Tennis and Chess