Ziyao Cheng

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY   **Expected May 2022**
Bachelor of Science, Computer Science Major
Electrical and Computer Engineering Minor
GPA: 3.79
Dean's List: Fall 2018, Spring 2019, Fall 2019
Relevant Courses: Object-Oriented Programming; Digital Logic and Computer Org; Data Structure and Functional Programming; Machine Learning; Intro to iOS development; (Spring 2020: Computer Vision; Embedded Systems; Intermediate Programming for Web; Analysis of Algorithms)

RESEARCH EXPERIENCE

Design&Augmented Intelligence Lab, Cornell University, NY, *Undergraduate Researcher*   **Aug. 2019-Present**
- Research on how environments affect people's decisions using VR technology and EEGs analysis
- Collect and perform independent component analysis on large-scale data using MATLAB
- Developing machine learning algorithms to accelerate EEG analysis process

PROJECT EXPERIENCE

Machine Learning Method Implementations, Cornell University, *Developer*   **Sep. 2019-Present**
- Collaborated with two developers to implement kNN, SVM, Neural Network and etc. in Python
- Developed algorithms to deal with large-scale data and perform optimization
- Currently working in Human-Robot Collaboration & Companionship Lab

Innovation Game Development, Cornell University, *Software Developer*   **Nov. 2019-Dec. 2019**
- Collaborated with three developers to implement board game Innovation
- Project contains 3000+ lines of code and 10+ modules in Ocaml
- Player is able to play games with three other AI players using command line

Recorsum App Development, Cornell University, *iOS Developer*   **Oct. 2019-Nov. 2019**
- Developed an app that turns recordings into summaries in Swift
- Implemented using Google Cloud NLP APIs.
- Elected to Honorable mentions in Hack Challenge among 30+ other teams

WORK EXPERIENCE

Cornell AguaClara , Ithaca, *Software developer*   **Jan. 2020 - Present**
- Currently working in Floc App sub-team doing CV related job
- Create app using opencv and PyQt to detect particles in water and then do data analysis

TechX Academy, Shanghai, *Academic Leader*   **July. 2019 - Aug. 2019**
- Designed and planned the TechX program: course design, instructor search, infrastructure construction
- Held recitations on the mathematical details covered in the 10-day course Robotics

Cornell Computer Science Course Staff, Cornell University, *Teaching Assistant*   **Jan. 2019 - Present**
- Assisted students with coursework for CS 1112: Introduction to Computing using MATLAB
- Collaborate with Professor Daisy Fan to held consulting hours and graded problem sets and exams

SPECIALIZED SKILLS

Programs: Java, Python, Swift, PHP, MATLAB, Excel, Ocaml, Verilog, Github, C
Languages: English(Fluent), Chinese(Fluent) , German(Basic)
Fabrication Skills: Oscilloscope, Multimeter, FPGA design