

Ruiqi Zhu

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EXPERIENCES

Developer @ Minibot CS Subteam, Cornell Cup Robotics

Ithaca, Sep 2019 - present

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- Minibot is a collection of modular educational robots that can run Python scripts.
 - Improved the web GUI and enabled data exchange between user control and the bots.
 - Built a Flask server and a SQLAlchemy database to store user-entered Python programs.
 - Currently working on programming analytics using the database system. 6 - 7 hours / week.

Research Assistant @ CIM Group, Cornell McMahon Lab

Ithaca, Feb 2020 - present

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- Project: Construct a physical neural network corresponding to the double pendulum with PyTorch.
 - Currently building a python simulator of the physical system.
 - Under guidance of Tatsuhiko Onodera. 10 hours / week

Course Consultant @ Cornell CS 1110: Intro to Computing with Python

Ithaca, Jan 2020 - present

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- Organize weekly labs and hold consulting hours. Grade assignments and exams. Answer questions on online discussion forums. 6 - 7 hours / week.

Graphic Vision Intern @ Alnnovation

Beijing, Dec 2019 - Jan 2020

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- Alnnovation is a start-up company focusing on AI-related products and services.
 - 4-week paid internship for the vision team. 32 hours / week.
 - Reconstructed an Android app that can do native image classification using ImageNet models. Used TVM for cross-compilation and generated shared libraries for the Java application.
 - Gained some understanding about the goals and concerns of a company in the real industry.

EDUCATION

- Cornell University GPA: 3.55
 - CS 1110 Computing with Python, 2110 Data Structures with Java, 2800 Discrete Structures, 3110 Functional Programming, 4740 NLP, 4780 Machine Learning, 4810 Computing Theory, iOS and Backend Development
 - MATH 1920 Multivariable Calculus, 2940 Linear Algebra
 - (current) CS 4670 Computer Vision, 4820 Analysis of Algorithms, MATH 3110 Analysis

SKILLS

- Language: English, Chinese
- Programming: Python (mastery), Swift (mastery), Java and OCaml (proficient), C++ and Javascript (hand-on experiences from project team and internship work)
- Projects: Abundant in iOS and backend development; 6 - 7 medium-sized course projects in machine learning and NLP; internship work strongly relates to Android development

SIDE PROJECTS

- Camera calculator: <https://github.com/RichieZhu26/Camera-Calculator>
- Instant messaging app: <https://github.com/RichieZhu26/Recreating-WeChat>
- Cazaar: <https://github.com/RichieZhu26/Cazaar>