

Ruolin “Lynn” Zheng
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EDUCATION

The University of Chicago

Joint Bachelor and Master of Science in Computer Science, Bachelor of Arts in Statistics

GPA: 3.95/4.00, Dean's List 2017 – 2018, Dean's List 2018 – 2019

Awards:

UChicago STEM Summer Research Grant (\$1,000)

Chicago, United States

Expected, June 2021

2018

RELATED COURSEWORK

Software Development, Computer Systems, Networks and Distributed Systems, Parallel Computing, Databases, Theory of Algorithms, Cryptography, Computational Linguistics, Machine Learning, Applied Regression Analysis

EXPERIENCE

VIA Technologies, Inc.

Software Engineering Intern in IoT (Internet of Things) and App Development

Shenzhen, China

June 2019 to September 2019

- Completed from scratch VPai Home, a PC App for home security cameras, which expects over 10,000 downloads
- Equipped the App with features to live stream and receive alerts from the cameras, with TCP, OSS, and databases
- Added a QR Code scan-login feature to VPai Home iOS and achieved a 54% growth in download counts since July
- Tested and improved the stability of the distributed Golang server used by the PC, iOS, Android Apps and cameras

Nomad Credit

Front-End Web Development Intern

Chicago, United States

October 2018 to April 2019

- Developed a Ruby on Rails Web App in a Docker container and monitored site performance in Google Analytics
- Optimized CSS for mobile display and compressed over 150 images to achieve a 50% increase in Page Load Speed

UChicago CANON Research Lab (Computing for ANYONE)

Research Assistant, Curriculum Development Intern

Chicago, United States

June 2018 to August 2018

- Developed seven Computer Science course modules in Scratch and automated the grading process with JavaScript
- Built Robot Turtle (a coding board game) Online Game in HTML/CSS/JavaScript for research data collection

LEADERSHIP & ACTIVITIES

UChicago TechTeam

Program Development Chair, Project Leader

Chicago, United States

January 2018 to Present

- Lead weekly workshops in Web Development and Python for Data Analysis, with a regular attendance of over 15
- Supervise 12 civic tech projects yearly, engaging over 100 students with clients like UChicago Career Advancement

PROJECTS

Exhibitor Look-Up Web App for the 2019 Grace Hopper Celebration

September 2019

- Built a website to support look-up of company data with Google Knowledge Graph API, with over 50 views daily

Sentence Predictor with Long-Short Term Memory (LSTM)

March 2019

- Built a LSTM encoder-decoder in PyTorch to predict the next sentence given the first, achieving 20% correctness

Face Detector from the Viola-Jones Paper

February 2019

- Built Haar Filters, AdaBoost, and Cascading to classify faces; Trained on 4000 images and achieved 32% accuracy

Smart Luggage Case “Bon Voyage” with Auto-Brake

June 2016 to August 2016

- Built an auto-brake system with 3D-printed wheel locks, touch sensors, and Arduino; Won Fabrication Lab Honor

SKILLS

Languages: Proficient in Python, C, C++, Java; Basic in HTML/CSS/JavaScript, Ruby on Rails, R, SQL, Swift, Go

Technologies: Proficient in Linux, Visual Studio, Xcode, wxWidgets; Basic in PyTorch, TensorFlow, Keras, Bootstrap