

# Xinhe Zhang

Industry software experience and academic research background in machine learning

An entrepreneur at heart

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## EDUCATION

### Carnegie Mellon University

*Master of Science in Electrical and Computer Engineering; GPA: 4.0 / 4.0*

*Bachelor of Science in Electrical and Computer Engineering with University and College Honors; GPA: 3.68 / 4.0*

Pittsburgh, PA

*Expected Dec 2020*

*May 2018*

## WORK EXPERIENCE

### Carnegie Mellon University

*Research Assistant at the Robotics Institute Navigation Laboratory*

- Created synthetic road scene images with Carla simulator and Autodesk Maya and trained neural networks to detect objects in real images for autonomous driving tasks with 100% accuracy for targets in interest.

Pittsburgh, PA

*Sep 2019 - Present*

### Guangdong 999 Brain Hospital

*Assistant to the Dean*

- Processed thousands of patient data entries into a machine-readable format for research purposes.
- Evaluated million-dollar machine learning products by analyzing embedded technologies for the Vice President.

Guangzhou, China

*Jun 2019 - Aug 2019*

### Talent Pool (Startup)

*Co-Founder*

- Directed the engineering team to build and deploy the product on AWS that supported thousands of daily web visits.
- Reached out to and connected with over 100 companies and attracted thousands of student applicants.

Pittsburgh, PA

*Oct 2017 - May 2019*

### Duolingo, Inc

*Android Developer*

- Collaborated with the China team and communicated with vendors to establish Android push notification in China.
- Introduced UI/UX improvements to the purchasing screens on Duolingo Android and boosted membership sales.

Pittsburgh, PA

*Nov 2018 - May 2019*

### Expai, Inc

*Engineer Intern*

- Implemented changes across the stack and collaborated with the content team to boost SEO results to Google Search's first-page ranking by editing embedded metadata as the sole engineer.

Pittsburgh, PA

*Aug 2018 - Oct 2018*

### Facebook, Inc

*Software Engineer Intern*

- Built a full-stack web app that queries from databases and collectively displays the results with user-specified parameters as part of the Facebook Analytics Automated Insights.

Seattle, WA

*May 2018 - Aug 2018*

### Google, Inc

*Engineering Practicum Intern; Software Engineering Intern*

- Deployed a C++ server that retrieves data from a large, spatially indexed table and researched on 3d geospatial data visualization.
- Created a data visualization tool to compute logic relationships among datasets and improved UI/UX for 150 monthly professional users.

Mountain View, CA; Boulder, CO

*May 2016 - Aug 2016; May 2017 - Aug 2017*

## LEADERSHIP

### Carnegie Mellon University

*Teaching Assistant*

- Led group review sessions for over 100 students. Mentored groups of students on Python term projects.

Pittsburgh, PA

*May 2015 - May 2018; Aug 2019 - Present*

### IEEE-Eta Kappa Nu Honor Society Sigma Chapter

*Corresponding Secretary and Elected Member*

- Started and maintained the weekly event email reminder and handled all correspondences inside the organization.

Pittsburgh, PA

*May 2017 - Aug 2018*

### CMU Innovation and Entrepreneurship Association

*Co-President and Panel Director*

- Initiated the Silicon Valley Chapter and founded the first CMU SV AI Summit.
- Recruited and managed over 100 members, attracted sponsorships and media attention, and held the 7th CMU Summit.

Pittsburgh, PA; Silicon Valley, CA

*Feb 2017 - Aug 2018*

### Carnegie Mellon University

*College Reading and Learning Association Certified Level 2: Advanced Tutor*

- Led group sessions and customized private sessions for various science subjects.

Pittsburgh, PA; Silicon Valley, CA

*Feb 2015 - May 2018*

## ACADEMIC AND RESEARCH PROJECTS

**Safety Analysis of Transcranial Electrical Stimulation - Master's Research Project**

*Sep 2019 - Present*

**Second Language Acquisition Modeling with Deep Learning**

*Sep 2019 - Dec 2019*

**Diabetic Retinopathy Detection with Deep Learning - Bachelor's Research Project**

*Sep 2017 - May 2018*

## SKILLS

**Languages:** Python, Javascript, Kotlin, C/C++, SQL,  $\LaTeX$

**Tools:** PyTorch, TensorFlow, Keras, Detectron, React, Redux, Express, AWS, COMSOL, Microsoft Office