

Xinhe Zhang

An entrepreneur with industry software experience and academic research background in machine learning
Now seeking product management opportunities

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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