Xinhe Zhang

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

EDUCATION

Carnegie Mellon University — Pittsburgh, PA
Master of Science in Electrical and Computer Engineering; GPA:4.0 / 4.0 — *Expected Dec 2020*
Bachelor of Science in Electrical and Computer Engineering with University and College Honors; GPA: 3.68 / 4.0 — *May 2018*

WORK EXPERIENCE

Carnegie Mellon University — Pittsburgh, PA
Research Assistant at the Robotics Institute Navigation Laboratory — *Sep 2019 - Present*
- 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.

Guangdong 999 Brain Hospital — Guangzhou, China
Assistant to the Dean — *Jun 2019 - Aug 2019*
- 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.

Talent Pool (Startup) — Pittsburgh, PA
Co-Founder — *Oct 2017 - May 2019*
- 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.

Duolingo, Inc — Pittsburgh, PA
Android Developer — *Nov 2018 - May 2019*
- 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.

Expii, Inc — Pittsburgh, PA
Engineer Intern — *Aug 2018 - Oct 2018*
- 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.

Facebook, Inc — Seattle, WA
Software Engineer Intern — *May 2018 - Aug 2018*
- 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.

Google, Inc — Mountain View, CA; Boulder, CO
Engineering Practicum Intern; Software Engineering Intern — *May 2016 - Aug 2016; May 2017 - Aug 2017*
- 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.

LEADERSHIP

Carnegie Mellon University — Pittsburgh, PA
Teaching Assistant — *May 2015 - May 2018; Aug 2019 - Present*
- Led group review sessions for over 100 students. Mentored groups of students on Python term projects.

IEEE-Eta Kappa Nu Honor Society Sigma Chapter — Pittsburgh, PA
Corresponding Secretary and Elected Member — *May 2017 - Aug 2018*
- Started and maintained the weekly event email reminder and handled all correspondences inside the organization.

CMU Innovation and Entrepreneurship Association — Pittsburgh, PA; Silicon Valley ,CA
Co-President and Panel Director — *Feb 2017 - Aug 2018*
- 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.

Carnegie Mellon University — Pittsburgh, PA; Silicon Valley ,CA
College Reading and Learning Association Certified Level 2: Advanced Tutor — *Feb 2015 - May 2018*
- Led group sessions and customized private sessions for various science subjects.

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++, LaTeX

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