Xinhe Zhang

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA

M.S. in Electrical and Computer Engineering: GPA: 4.0/4.0

Aug 2019 - Expected Dec 2020

Courses: Introduction to Machine Learning for PhD, Introduction to Deep Learning, Neural Signal Processing, Information Theory

Carnegie Mellon University

Pittsburgh, PA

B.S. in Electrical and Computer Engineering with University and College Honors; GPA: 3.68/4.0 Courses: Deep Reinforcement Learning and Control, Natural Language Processing, Fundamentals of Control

Aug 2014 - May 2018

SKILLS SUMMARY

Languages Python, Javascript, Kotlin, C/C++

Tools PyTorch, TensorFlow, D3.js, WebGL, React, Redux, Angular, Express, Flask, AWS

Work Experience

Carnegie Mellon University

Pittsburgh, PA Feb 2015 - Current

Teaching Assistant and CRLA Certified Level II: Advanced Tutor

• Organized review sessions and office hours for 100 students and graded their works.

Guangdong 999 Brain Hospital

Guangdong, China

Jul 2019 - Aug 2019

o Participated in brain cancer case discussions and assisted the associate dean with technology purchasing decision-making.

Duolingo, Inc

Android Developer

Assistant to the Dean

Pittsburgh, PA Nov 2018 - May 2019

- Collaborated with product and design teams to develop Duolingo on Android.
- Collaborated with the China team to implement Android push notification in China.

Expii, Inc

Pittsburgh, PA

Engineer Intern

Aug 2018 - Nov 2018

• Collaborated with the content team to improve SEO results as the sole engineer.

Facebook, Inc

Seattle, WA

Software Engineer Intern

May 2018 - Aug 2018

o Designed and implemented a web app in React, GraphQL and PHP with user-specified parameters that can query from databases and collectively display the results.

Google, Inc

Mountain View, CA

Software Engineer Intern

May 2017 - Aug 2017

o Designed an data visualization tool and improved the frontend filtering method in Angular and D3.js for about 150 business and engineer monthly users.

Engineering Practicum Intern

May 2016 - Aug 2016

- Implemented a C++ backend server and served it to visualize geospatial data.
- o Created an interactive web display of 3d geospatial data with WebGL and Maps API.

Academic Projects

Diabetic Retinopathy Detection with Deep Learning

Designed a pipeline that first captured the underlying domain knowledge from retina fundus images and then performed the grading classification task.

Training Deep Network with Synthetic Images

Used the Carla simulator and Autodesk Maya to create synthetic images of objects in road scenes and trained a deep network to detect objects in real images with these synthetic ones.

Second Language Acquition Modeling with Deep Learning

Given a history of token-level errors made by the learner in the learning language (L2), experimented a series of deep learning models to predict the errors they will make in the future.

Time-Space-Aware Memory for Deep Reinforcement Learning

Experimented on approaches towards improvements of memory structures for reinforcement learning.

Question Generating and Answering System

Generated questions and answers from given texts with natural language processing models.

Leadership

CMU Innovation and Entrepreneurship Association

Pittsburgh, PA

Co-President

May 2017 - Aug 2018

IEEE-Eta Kappa Nu Honor Society

Pittsburgh, PA

Corresponding Secretary, Sigma Chapter

May 2017 - Aug 2018