

Xinhe Zhang



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EXPERIENCE

Google Inc.

Software Engineering Intern May 2017 - August 2017, Mountain View, CA

- Designed, implemented and documented an interactive visualization tool comparing multiple datasets in AngularJS and D3.js, solving the long existing pain point for about 150 business and engineer monthly users.
- Improved the frontend filtering method to optimize render speed and minimize data loss. Redesigned and implemented the data animation by manipulating D3.js transitions for a visualization tool with 100 daily users.

Engineering Practicum Intern May 2016 - August 2016, Boulder, CO

- Implemented backend server in C++ that retrieves data from a large, spatially indexed table and serves it as part of a system to visualize geospatial data, which enables engineers to efficiently inspect imagery pipelines in a visual manner, reducing the guesswork which had prompted time-consuming experiments.
- Created a web-based, rotatable display of geospatial data in 3d space using WebGL and Google Maps API.

CMU Summit on US-China Innovation and Entrepreneurship

Co-President Since May 2017, Pittsburgh, PA and San Francisco, CA

- Recruit and manage over 100 members across 6 departments (operation, marketing, external relations, conference, venture competition and finance).
- Initiate and lead the CMU Summit Silicon Valley Conference.
- Organize two annual conferences featuring keynote speeches, technical topics panel discussions and new venture projects presentation and competition with over 1,000 registered audience.
- Create and maintain partnerships with companies, media and organizations.
- Redesign and maintain the official website cmu-summit.net.

Co-Director Artificial Intelligence Panel and Virtual Reality Panel
January 2017 - May 2017, Pittsburgh, PA

Carnegie Mellon University

College Reading and Learning Association Certified Level II: Advanced Tutor

Since February 2015, Pittsburgh, PA

- Organized 20 students to work in groups in weekly tutoring sessions for discrete mathematics and engineering subjects.
- Held weekly 1 on 1 appointments, providing customized help to students.

Teaching Assistant June 2015 - May 2017, Pittsburgh, PA

- Led weekly recitation, lab and large group (over 100 students) review session.
- Mentored groups of students on their Python term projects.
- Regularly covered for other staff members when they needed help.
- Graded homework weekly and exams monthly.
- Helped adjust assignment difficulty level by interacting with students daily.

EDUCATION

Carnegie Mellon University

Bachelor of Science

Master of Science

Electrical and Computer
Engineering, Class of 2019

SKILLS

Team Management

Quick Learner

Public Relations

Python, C++, Javascript

ACTIVITIES

IEEE-Eta Kappa Nu (HKN)

The Honor Society of IEEE

Corresponding Secretary

Sigma Chapter

Since May 2017, Pittsburgh, PA

Conduct correspondence with IEEE-HKN Headquarters and other chapters. Secure and sign membership certificates for newly elected members.

Elected Member

Since January 2017

Carnegie Mellon University

Research Assistant

August 2016 - December 2016

Researched on the implementation of wireless backend for the Oculus hardware device.

PROJECTS

Algolab | Django

Mind Map | Python

Music Puzzle Cube | Arduino

Palace | Javascript

Pic8 | IOS & Tesseract