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Yongyi Zhao
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Permanent Address
8 Cobblestone Way
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Education

Carnegie Mellon University, Pittsburgh PA.
Bachelor of Science in Electrical and Computer Engineering
Overall QPA: 3.91/4.00

May 2018

Work Experience

Software Development Engineer Intern, Amazon.com

- Working on Amazon AWS, Elastic Compute Cloud Team
- Designing and implementing container service

May 2017 – Present
Seattle, WA

Teaching Assistant (TA), 15-112 at Carnegie Mellon University

- Lead recitation of 20 students, weekly lecture to review and deepen students' understanding
- Perform course logistics: grading, tutoring at office hours, leading review sessions

Aug 2016 – Dec 2016
Pittsburgh, PA

Software Engineering Intern, Schrödinger LLC

- Developed GUI's for panels in Schrodinger's Material Science and FEP+ software suites
- Wrote script to calculate protein solution properties

June 2016 – Aug 2016
New York City, NY

Resident Assistant (RA), Carnegie Mellon University

- Served as a student mentor and advisor for 28 residents, responsible for housing-related events
- Increased first-year engagement on campus by scheduling and implementing dorm events

Aug 2015 – May 2016
Pittsburgh, PA

Carnegie Mellon University: Image Science Lab

- Developing light-field simulations on computational camera designs
- Researching, developing, and analyzing accuracy of reconstruction models

Jan 2017 – Present
Pittsburgh, PA

Projects

Cartoon Interpolation Animator

- Animate 2-D image using interpolation: manipulate using cage, skeleton, spline interpolation
- <https://www.andrew.cmu.edu/user/vasua/FinalAssignmentWriteup/FinalAssignmentWriteup.html>

Dec 2016

Script for Calculating Properties of Protein Solution

- Wrote python script which ran calculations over millions of protein configuration
- Wrote script in parallel on Schrodinger's Jobcontrol framework to optimize calculations

June 2016 – Jul 2016

Racing Simulation using OpenCV Motion Detection

- Presented as one of top 15 projects (of ~400 students) for 15-112 Spring 2015 Course
- For a general overview: <https://www.youtube.com/watch?v=HXx1ZZWuIXs>

April 2015

Awards & Honors

Tau Beta Pi Engineering Honors Society, Internal Secretary
Semiconductor Research Corporation Scholarship
CMU Summer Undergraduate Research Fellowship
National Merit Scholarship Finalist
Siemens Science Competition Semifinalist

Apr 2017
Dec 2015
May 2015
May 2014
Oct 2013

Skills

Programming/Computing:

- **Strong:** Python, C; **Proficient:** C++, Matlab, Linux; **Limited:** Version Control (Git), Qt

Languages: Fluent in English and Chinese (Mandarin), working proficiency in Spanish

Relevant Coursework

- 15-462: Computer Graphics
- 18-349: Introduction to Embedded Systems
- 18-341: Logic Design and Verification*
- 18-792: Advanced Digital Signal Processing*

Activities

Mentor, Higher Achievement

- Tutored group of 2-5 middle school students in project design and scientific method

Oct 2014 – Present

*Upcoming course or event