Matthew Zhu

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA

Expected May 2018

B.S. in Computer Science, Minor in Mathematics

- Cumulative GPA: 3.90 / 4.00
- Selected courses: machine learning, distributed systems, artificial intelligence, numerical methods, technical communications

EXPERIENCE

Amazon Lab126, Sunnyvale, CA

Jun 2017 – Aug 2017

SDE Intern

- Enabling sending cloud-initiated directives to tablets using MOTT instead of opening voice channels over HTTP, which is prohibitively unscalable
- Reorganizing Alexa connection services to allow easier integration of new devices

Carnegie Mellon University, Pittsburgh, PA

Aug 2016 - Dec 2016

Teaching Assistant for 15-122 Principles of Imperative Computation

- Managed introductory CS course of 400+ students with a team of 32 other TAs
- Led 3 weekly labs of ~20 students to help guide students through coding exercises
- Held weekly office hours to answer questions about concepts and homework

Intentional Software, Seattle, WA

Jun 2016 – Aug 2016

Intern Software Analyst and Developer

• Created GPU performance profiling layer in C# and C++ CLI for an early version of the Whiteboards app for the Microsoft Surface Hub

Motorola Solutions, Plantation, FL

Jun 2015 – Aug 2015

Embedded Software Engineer

• Built 2 Perl tools for end-to-end testing that two-way wireless radios correctly remotely receive and decode firmware updates

SKILLS Languages: Python, Java, C, JavaScript, HTML5, CSS3, SML, Perl, Intel Assembly For fun: Linux Mint for my laptop, Git for my homework, Audacity for mashups

PROJECTS

Scalable Store Service, 15-440 Distributed Systems

• Elastic load-balancing system in Java to handle simulated request patterns for an online store while maximizing throughput and minimizing resource usage

MAO Timers

 Web app that simplifies timing logistics, previously managed by proctors manually, for the MAO national math honor society. Officially used since 2014

Ten-Second Planetarium

• Web visualization of the solar system that approximates physical laws of planetary motion, with speed scaled such that an Earth year lasts ten seconds

Subvert: Resistance Universe Toolkit

• Android app to aid portable gameplay of the board game Avalon/The Resistance

HONORS

School of Computer Science Dean's List

Spring 2016 – Spring 2017

Mellon College of Science Dean's List with High Honors

Fall 2014 – Fall 2015

Emerson National Merit Scholarship

2014 - 2018