

# Matthew Zhu

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**EDUCATION** **Carnegie Mellon University**, Pittsburgh, PA  
B.S. in Computer Science, Minor in Mathematics Expected May 2018

- Cumulative GPA: 3.90 / 4.00
- Selected coursework: distributed systems, computer systems, parallel and sequential data structures and algorithms, discrete math and theoretical CS
- Coursework in progress: machine learning

**SKILLS** Proficient: Python, C, JavaScript, HTML5, CSS3, SML  
Familiar: Java + Android, Intel x86-64 Assembly, Perl, C#, Ruby on Rails, Angular, React

**EXPERIENCE** **Carnegie Mellon University**, Pittsburgh, PA Aug 2016 – present  
Teaching Assistant for 15-122

- Managed introductory CS course of 400+ students with a team of 32 other TAs
- Led 3 weekly lab sessions of about 20 students each and held 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 a flagship office productivity app designed for large touchscreens
- Implemented precise GPU method timing using DirectX 11 queries in aforementioned profiling layer to help discover performance bottlenecks in the app's release candidate

**Motorola Solutions**, Plantation, FL Jun 2015 – Aug 2015  
Embedded Software Engineer

- Built 2 Perl tools to verify that two-way radios correctly receive and decode wireless firmware updates

**PROJECTS** **MAO Timers**

- Web app that accurately simulates proctors in competition testing environment for 8 test types administered by Mu Alpha Theta national math honor society
- Officially used at regional, state, and national levels since 2014 National Convention

**Ten-Second Planetarium**

- HTML5 canvas visualization using astronomical data to approximate Kepler's three laws of planetary motion if an Earth year lasted ten seconds

**Subvert: Resistance Universe Toolkit**

- Android app to aid portable gameplay of the board game The Resistance

**HONORS** School of Computer Science Dean's List Spring 2016  
For attaining a semester GPA of 3.75 or higher

Mellon College of Science Dean's List with High Honors Fall 2014 – Fall 2015  
For attaining a semester GPA of 3.75 or higher

Ranked in top 25% in Putnam Mathematical Competition 2014  
15 / 120 points; 4000+ participants nationwide

Emerson National Merit Scholarship 2014 – 2018