

Matthew Zhu

mattz496@gmail.com • (954) 536-6573
matthewzhu.com • github.com/mz496 • linkedin.com/in/mz496

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

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

SKILLS Best languages: Python, Java, C, JavaScript ES5, HTML5, CSS3, SML
Familiar languages: Android, Intel x86-64 Assembly, Perl, C#, Ruby on Rails, React

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

- 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

Intern Software Analyst and Developer Jun 2016 – Aug 2016
Intentional Software, Seattle, WA

- 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 this profiling layer to find performance bottlenecks in the app's release candidate

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

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

PROJECTS **MAO Timers**

- Created web app that simulates competition test proctors for 8 test types administered by the Mu Alpha Theta national HS math honor society
- Officially used at regional, state, national levels since 2014 National Convention

Ten-Second Planetarium

- Created 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

- Created 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