Matthew Zhu

10164 NW 3rd Place, Coral Springs, FL 33071
mzhu1@andrew.cmu.edu • (954) 536-6573
matthewzhu.com • github.com/mz496 • linkedin.com/in/mz496

EDUCATION

Carnegie Mellon University, Pittsburgh, PA
B.S. in Computer Science — Expected May 2018

- Cumulative GPA: 3.90 / 4.00
- Completed coursework: imperative and functional programming, discrete math, computer systems, parallel and sequential data structures and algorithms, distributed systems
- Coursework in progress: machine learning

SKILLS

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

EXPERIENCE

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

- Created a GPU performance profiling layer with C++ and C# interop for a flagship office productivity app
- Underwent code reviews by multiple teams, gave team demos, and wrote documentation for my code

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

- Developed 2 Perl tools to test wireless firmware update downloads for two-way radios; the tools read the updates as chunks of binary data, send the reconstructed bytes to a radio, and verify validity by parsing the resulting radio logs

PROJECTS

MAΘ Timers

- Web app that accurately simulates proctors in competition testing environment for 8 test types administered by Mu Alpha Theta math honor society
- In official use since the 2014 National Convention

GamesVault

- Ruby on Rails web app that scrapes several websites for game prices and information to create APIs for displaying information to game buyers
- Designed front-end and linked it with the database using Ruby and Ajax; built with one other teammate

Ten-Second Planetarium

- HTML5 canvas visualization using math and astronomical data that depicts the passage of time using the benchmark that ten seconds represents one year

Subvert: Resistance Universe Toolkit

- Android app that implements all the gameplay of the party board games The Resistance and The Resistance: Avalon, so they can be easily played without a game board or game pieces

ACADEMIC HONORS & AWARDS

School of Computer Science Dean's List — Spring 2016
For attaining a semester GPA of at least 3.75

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

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

Emerson National Merit Scholarship Award — 2014 – 2018

National Merit Scholarship Finalist — 2014