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: 3.92 / 4.00
- Selected courses: machine learning, distributed systems, artificial intelligence

SKILLS

Most familiar: Python, Java, C, JavaScript ES5, HTML5, CSS3, SML
Less familiar: Android, Intel x86-64 Assembly, Perl, C#, Ruby on Rails, React
For fun: Ubuntu Linux for my laptop, Git for my homework, Audacity for mashups, Illustrator for drawing

EXPERIENCE

Teaching Assistant for 15-122 · Aug 2016 – Dec 2016
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
- Held weekly 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
- 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
- HTML5 canvas visualization that uses 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 – Fall 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