

Matthew Zhu

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EDUCATION	Carnegie Mellon University , Pittsburgh, PA B.S. in Computer Science, Minor in Mathematics • 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	Expected May 2018
SKILLS	Proficient: Python, C, JavaScript, HTML5, CSS3, SML Familiar: Java + Android, Intel x86-64 Assembly, Perl, Ruby on Rails, Angular, React	
EXPERIENCE	Carnegie Mellon University , Pittsburgh, PA Teaching Assistant for 15-122 • Managed introductory CS course of 475 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	Aug 2016 – present
	Intentional Software , Seattle, WA Intern Software Analyst and Developer • Created a C#/C++ CLI interop layer to profile GPU performance 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	Jun 2016 – Aug 2016
	Motorola Solutions , Plantation, FL Embedded Software Engineer • Developed 2 Perl tools to automate verification of correctly downloading wireless firmware updates for two-way radios • Reconstructed binary files from chunks, sent them wirelessly to the radio, and verified that the received data in the radios' output logs matched the sent data	Jun 2015 – Aug 2015
PROJECTS	MAO 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	
	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 • Approximates Kepler's three laws of planetary motion	
	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	
HONORS	School of Computer Science Dean's List For attaining a semester GPA of 3.75 or higher	Spring 2016
	Mellon College of Science Dean's List with High Honors For attaining a semester GPA of 3.75 or higher	Fall 2014 – Fall 2015
	Ranked in top 25% in Putnam Mathematical Competition 15 / 120 points; over 4000 participants nationwide	2014