

Matthew Zhu

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EDUCATION	Carnegie Mellon University , Pittsburgh, PA	
	B.S. in Computer Science, Minor in Mathematics	Expected May 2018
	<ul style="list-style-type: none">• 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	Carnegie Mellon University , Pittsburgh, PA	Aug 2016 – present
	Teaching Assistant for 15-122	
	<ul style="list-style-type: none">• 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	
	Intentional Software , Seattle, WA	Jun 2016 – Aug 2016
	Intern Software Analyst and Developer	
	<ul style="list-style-type: none">• 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	
	Motorola Solutions , Plantation, FL	Jun 2015 – Aug 2015
	Embedded Software Engineer	
	<ul style="list-style-type: none">• 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	
PROJECTS	MAO Timers	
	<ul style="list-style-type: none">• 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	
	<ul style="list-style-type: none">• 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	
	<ul style="list-style-type: none">• 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	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; over 4000 participants nationwide	