

Matthew Zhu

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EDUCATION	Carnegie Mellon University , Pittsburgh, PA B.S. in Mathematical Sciences and Computer Science • Cumulative GPA: 3.89 / 4.00 • Selected Coursework: imperative and functional programming, theoretical computer science, computer systems, parallel and sequential data structures and algorithms	Expected May 2018
SKILLS	Proficient: Python, C, JavaScript, HTML5, CSS3, SML Familiar: Java, Perl, Ruby on Rails, Bootstrap, AngularJS	
EXPERIENCE	Motorola Solutions , Plantation, FL Embedded Software Engineer • Aided testing wireless firmware update downloads for two-way radios by writing 2 Perl tools that read the updates as chunks of binary data, send the reconstructed bytes to a radio, and verify validity by parsing the resulting radio logs • Underwent code review and gave 2 progress demos to my Agile/Scrum team	Jun 2015 – Aug 2015
	Art of Problem Solving , San Diego, CA Online School Assistant • Gave detailed feedback on online school submissions in Python/Java programming and all areas of math from pre-algebra to calculus, emphasizing problem-solving and critical thinking • Wrote solutions for national math competition problems, which were then used in online school teaching materials	Jan 2014 – Jun 2015
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	
	SoCal (Social Calendar) • PennApps Fall 2015 entry • Ruby on Rails web app that aims to combine group calendars (Facebook Events, Google, Outlook, etc.) into a unified interface to help manage different roles in everyday life • 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	Ranked in top 25% in Putnam Mathematical Competition 15 / 120 points; over 4000 participants nationwide	2014
	Mellon College of Science Dean's List with High Honors For attaining a semester GPA of at least 3.75	Fall 2014 – Spring 2015
	Emerson National Merit Scholarship Award	2014 – 2018
	National Merit Scholarship Finalist	2014