

# Zachary Lawrence

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<b>EDUCATION</b>	<i>Bachelor of Science</i> , Computer Engineering University of Maryland, College Park, MD <ul style="list-style-type: none"><li>• Current Cumulative GPA: 3.7/4.0</li><li>• Current Major GPA: 3.7/4.0</li></ul>	Expected May 2016
<b>COMPUTER SKILLS</b>	<b>Languages:</b> Java, C, JavaScript, Python, SQL <b>Platform Frameworks:</b> Amazon Web Services (EC2), JBoss Application Server, Tomcat, Heroku, Vagrant, MySQL, Ozone Widget Framework, Arduino, Android <b>Software:</b> JAX-RS (RESTEasy/Jersey), JDBC, Maven, Django, D3, Git, JUnit	
<b>WORK EXPERIENCE</b>	<i>Google</i> Engineering Practicum Summer Intern <ul style="list-style-type: none"><li>• Collected metrics and improved reliability of internal Google tool by designing and developing a load testing framework based on HTTPS and RPC requests.</li><li>• Wrote multiple bug fixes by communicating between various internal Google divisions to determine the ideal solution for the most users.</li></ul>	Summer 2014
	<i>ITT Exelis: Geospatial Systems</i> Software Engineer Summer Intern <ul style="list-style-type: none"><li>• Researched the Ozone Widget Framework and created numerous widgets to demonstrate key concepts and ideas.</li><li>• Designed and implemented a RESTful web service to provide advanced analytics for image management and manipulation within the Ozone Widget Framework.</li></ul>	Summer 2013
	<i>Human-Computer Interaction Lab</i> University of Maryland, Undergraduate Research <ul style="list-style-type: none"><li>• Assisting Professor Jon Froehlich and Ph.D. Student Kotaro Hara on a project that uses images from Google Street View to locate sidewalk accessibility issues.</li><li>• Improved sidewalk detection rates by developing python code based on OpenCV.</li><li>• Used D3 to create a researcher dashboard to render pertinent statistical models.</li></ul>	Fall 2013 - Current
<b>ADDITIONAL ACTIVITIES</b>	<i>Hackathons</i> <ul style="list-style-type: none"><li>• MHacks: First Place<ul style="list-style-type: none"><li>– Worked with 2 colleagues in 36 hours to design, create and code a single stream recycling bin that sorts recyclable and non-recyclable materials.</li></ul></li><li>• Bitcamp: Microsoft Awarded Best Hack<ul style="list-style-type: none"><li>– Spent 36 hours independently designing and creating a web service for real-time translation of SMS messages between two phones.</li></ul></li></ul>	Fall 2013 Spring 2014
	<i>Engineers Without Borders</i> University of Maryland Chapter: Peru Water Purification Project <ul style="list-style-type: none"><li>• Investigated, designed and implemented a water purification system within a remote town in Compone, Peru.</li><li>• Selected, with 5 other undergraduate students out of a group of 70, to travel to Compone and conduct research on the water distribution system.</li></ul>	Fall 2012 - Spring 2013