

Zachary Lawrence

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EDUCATION *Bachelor of Science, Computer Engineering* Expected May 2016
University of Maryland, College Park, MD

- Current Cumulative GPA: 3.8/4.0
- Current Major GPA: 3.7/4.0

COMPUTER SKILLS **Languages:** Java, C, JavaScript, Python
Software Platforms: Linux, Amazon Web Services (EC2/S3), Heroku, Vagrant
Software Frameworks: Various REST Development Frameworks, Parse/Firebase, MySQL, Ozone Widget Framework, Git/Github, Maven, Junit
Hardware: Raspberry Pi, Arduino, Zwave/Zigbee (Wireless Protocols)

WORK EXPERIENCE *Facebook* Summer 2015
Software Engineer Summer Intern

- Worked with the New Technology Team under Connectivity Lab (Internet.org).
- Explored technologies dealing with Parse and IOT devices (Internet of Things).

Google Summer 2014
Engineering Practicum Summer Intern

- Collected metrics and improved reliability of an internal tool by designing and developing a load testing framework based on HTTPS and RPC requests.

ITT Exelis: Geospatial Systems Summer 2013
Software Engineer Summer Intern

- Designed and implemented a RESTful web service to provide advanced analytics for image management and manipulation within the Ozone Widget Framework.

Human-Computer Interaction Lab Fall 2013 - Current
University of Maryland, Undergraduate Research

- 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.
- Improved sidewalk detection rates by developing python code based on OpenCV.
- Used D3 to create a researcher dashboard to render pertinent statistical models.

ADDITIONAL ACTIVITIES *Hackathons*

- MHacks: First Place Fall 2013
 - Worked with 2 colleagues in 36 hours to design, create and code a single stream recycling bin that sorts recyclable and non-recyclable materials.
- Bitcamp: Microsoft Awarded Best Hack Spring 2014
 - Spent 36 hours independently designing and creating a web service for real-time translation of SMS messages between two phones.

Engineers Without Borders Fall 2012 - Spring 2013
University of Maryland Chapter: Peru Water Purification Project

- Investigated, designed and implemented a water purification system within a remote town in Compone, Peru.
- Selected, with 5 other undergraduate students out of a group of 70, to travel to Compone and conduct research on the water distribution system.