

JULIUS ALEXANDER IV

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Education

Rensselaer Polytechnic Insitute – Troy, NY

Antic. Graduation–2016

- Pursuing a dual degree in Computer & Systems Engineering and Computer Science with a 3.92 GPA
- Successfully completed courses in Data Structures, Signals & Systems, Electric Circuits, Embedded Control, Intro to Algorithms, Computer Components & Operations

Work Experience

Google – Kirkland, WA

May 2014–August 2014

- Developed a Python application for fuzz testing MySQL that spawns MySQL processes, executes randomly generated commands on them, watches for crashes, and collects data about those crashes
- Learned multiple internal Google technologies such as source control and build tools

State Farm Insurance – Bloomington, IL

May 2013–August 2013

- Using VBA, developed an Excel macro to access databases and pull data to populate a spreadsheet
- Formulated requirements and designed a prototype for a future tool to manage any and all information relating to test IDs
- Developed and designed two intern websites for internal use, built with HTML, CSS, Javascript

Google Android Camp – Mountain View, CA

June 2013

- In a team of five, closely collaborated to brainstorm, design, and develop a working Android application using Java and incorporating picture-taking, the Google Maps API, and location services
- Received instruction and training from Google Android Team employees on how to properly develop Android apps

District 87 Technology Department – Bloomington, IL

May 2011–January 2013

- Held a position of leadership over new student workers, training them for the job and leading small teams on assigned tasks
- Provided technical support for District 87 staff by identifying and implementing solutions to technological problems such as resolving network and hardware issues

Projects & Skills

- *Identitie* – The winning Hack Upstate Fall 2013 project that brings two-factor authentication clientside by using a Chrome extension, iPhone app, and node.js server
- *Visual Logic Circuits* – Created an input/output system in Java to render and display visual logic circuits for a psychology research project
- *sprawl* – Attempts to "distribute" the internet by utilizing the bit torrent protocol in-browser with a Chrome extension and Go key-value server
- One year experience with Python, one and a half with C++ and Java, comfortable with Linux/Unix-like systems, half year experience with HTML, CSS, and Javascript, working knowledge of Haskell

Activities

- *Computer Science I Programming Mentor* *2014–Present*
- *AXA, Webmaster and Executive Committee Standards Chair* *2013–Present*
- *Eta Kappa Nu, Electrical & Computer Engineering Honor Society* *2013–Present*
- *Tau Beta Pi, General Engineering Honor Society* *2013–Present*
- *Racquetball Club* *2012–Present*