Julius Alexander IV

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education

Rensselaer Polytechnic Institute – Troy, NY

Antic. Graduation-2016

- ▶ Pursuing a dual degree in Computer & Systems Engineering and Computer Science with a 3.83 GPA
- ► Completed courses in Data Structures, Signals & Systems, Embedded Control, Algorithms, Computer Architecture, Operating Systems, Quantum Physics, Programming Languages, Analog Electronics

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, and 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 training from Android Team employees on how to properly develop Android apps

projects & skills

- ▶ *Identitie* Winning Hack Upstate Fall 2013 project that brings two-factor authentication client-side using a Chrome extension, iPhone app, and Node.js server
- ▶ Visual Logic Circuits An input/output system written in Java to render and display visual logic circuits for a psychology research project
- ▶ VGA Output Draws pictures on a VGA monitor using a C8051 microcontroller
- ▶ Avoclock'o Start-to-finish design process of a persistent personal alarm system utilizing an Android app, pressure sensor, light and sound stimuli, and an Arduino
- ▶ sprawl "Distributes" 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, one year experience with HTML, CSS, and Javascript, working knowledge of Haskell

activities

▶ 1	1XA.	Webmaster.	Standards	Chair on	Executive	Committee

▶ Rensselaer TALKS, Committee Member and Committee Chair

 \triangleright $\Upsilon\Pi E$, Computer Science Honor Society

► HKN, Electrical & Computer Engineering Honor Society

► Racquetball Club

► Computer Science I Programming Mentor

2013-Present

2013–Present

2015-Present

2013-Present

2012-Present

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2014-2015