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
- o Completed courses in Data Structures, Signals & Systems, Embedded Control, Algorithms, Computer Architecture, Operating Systems, Quantum Physics, Programming Languages, Analog Electronics

experience_

Google, Chrome – Los Angeles, CA

May 2015-August 2015

- Rebuilt Chrome's spellchecking system to use multiple languages simultaneously, fulfilling one of its oldest feature requests estimated to impact millions of users
- o Facilitated and implemented a UI review for the Chrome settings page and right-click menu

Google, Cloud Security - Kirkland, WA

May 2014-August 2014

- Developed a Python application to break MySQL instances and aggregate information relevant to the cause of the crashes
- o Learned multiple internal technologies such as source control, build tools, and testing frameworks

State Farm Insurance - Bloomington, IL

May 2013-August 2013

- Wrote an Excel macro to gather and consolidate information from several databases
- Formulated requirements and built a prototype for a future tool to centralize team-relevant data

Google Android Camp - Mountain View, CA

June 2013

o Collaborated with a small team to brainstorm, design, and develop a working Android application incorporating picture-taking, the Google Maps API, and location services

projects & skills

- o Identitie Client-side two-factor authentication using a Chrome extension, iPhone app, and Node.js server
- Visual Logic Circuits Input/output system that renders and displays visual logic circuits for a psychology research project
- VGA Output Recreated the VGA protocol to draw shapes and patterns on a 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
- o sprawl "Distributes" the internet by utilizing the bit torrent protocol in-browser with a Chrome extension and Go key-value server
- Two years experience with Python and C++, one and a half with Java, comfortable with Linux/Unixlike systems and Git, one year experience with HTML, CSS, and Javascript, working knowledge of Haskell

activities

0	ΛXA , Webmaster, Standards Chair on Executive Committee	2013– $Present$
0	Rensselaer TALKS, Committee Chair and Founding Member	2013-Present

 \circ $\Upsilon\Pi E$, Computer Science Honor Society 2015-Present • HKN, Electrical & Computer Engineering Honor Society 2013-Present

2012-Present • Racquetball Club 2014-2015

• Computer Science I Programming Mentor