Julius Alexander IV

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education _____

Rensselaer Polytechnic Institute – Troy. NY

Antic. Graduation-2016

- Pursuing a dual degree in Computer Science and Computer & Systems Engineering with a 3.83 GPA
- o Completed courses in Data Structures, Cryptography & Network Security, Machine Learning, 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

- o Developed a Python fuzzer to break MySQL instances and aggregate information relevant to the cause of the crashes
- 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
- o Formulated requirements and built a prototype for a future tool to centralize team-relevant data

projects & skills _____

- o Identitie Winning Hack Upstate 2013 entry for client-side two-factor auth using a Chrome extension, iPhone app, and Node is server
- Visual Logic Circuits Input/output system that renders and displays "visual logic circuits"
- VGA Output VGA protocol implementation that draws 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, Arduino, and Bluetooth
- Sprawl Winning Hack Upstate 2014 entry that "distributes" the internet by utilizing the bit torrent protocol in-browser with a Chrome extension and Go key-value server
- o Geosnap Android Camp 2013 app using the Google Maps API, camera, and location services
- o Cranium.css Machine learning CSS framework written in Go and Python
- \circ Three years experience with Python and C++, two with Java, one and a half years experience with HTML, CSS, and Javascript, proficient with Linux/Unix-like systems, Git, Android development, competent in Haskell, Go, Scala, and Elm

activities _

o ΛXA , Webmaster, Executive Committee Standards Chair	$2013 ext{-}Present$
• Rensselaer TALKS, Committee Chair and Founding Member	$2013 ext{-}Present$
 ΥΠΕ, Computer Science Honor Society 	$\it 2015 ext{-}Present$
• HKN, Electrical & Computer Engineering Honor Society	$2013 ext{-}Present$
∘ <i>TBII</i> , General Engineering Honor Society	$2013 ext{-}Present$
o Racquetball Club	$\it 2012 ext{-}Present$
• Computer Science I Programming Mentor	2014-2015