# 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, 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
- ▶ 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
- ▶ 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

► 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

- ▶ *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
- ▶ 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/Unix-like systems and Git, one year experience with HTML, CSS, and Javascript, working knowledge of Haskell

### activities \_\_\_\_\_

$\blacktriangleright$	$\Lambda XA$ , Webmaster, Standards Chair on Executive Committee	$2013 ext{-}Present$
<b>•</b>	Rensselaer TALKS, Committee Chair and Founding Member	$2013 ext{-}Present$

- WHE CO. I CO. II CO. I
- ► YIE, Computer Science Honor Society 2015–Present
- ► HKN, Electrical & Computer Engineering Honor Society 2013–Present
- ► Racquetball Club 2012–Present
- ► Computer Science I Programming Mentor 2014–2015