

JULIUS ALEXANDER IV

home:

2704 Hall Ct
Bloomington, IL 61704

mail:

149 4th St, Apt 2
Troy, NY 12180

p: (309) 319-0689

w: JuliusAlexanderIV.github.io

e: alexaj5rpi@gmail.com

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
- 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
- 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 auth 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

- AXA, Webmaster, Standards Chair on Executive Committee *2013–Present*
- Rensselaer TALKS, Committee Chair and Founding Member *2013–Present*
- YIIE, 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*