

ABOUT ME:

- > **I am passionate about tech.** After teaching myself all about Linux in middle school, I went on to teach myself the basics of programming, computer hardware, networking, cryptography, and information security before graduating high school.
- > **I am outgoing.** I enjoy talking to people and communicating face-to-face. I also have strong writing skills, and know from experience the value of thorough documentation.
- > **I am a fast learner.** I took on the challenge of a full-time, full-stack software development job for my first co-op term, and excelled despite the steep learning curve.

SOFTWARE EXPERIENCE:

- > Two years of experience with **Python** and **Django**
- > Five years of experience working with **Linux** and the **Shell**
 - \ Remotely configured a Raspberry Pi as a home server via **SSH** and **Vim**
- > Strong front-end web development skillset:
 - \ Proficient with **JavaScript**, **jQuery**, and **AJAX**
 - \ Very experienced with the **Google Maps API**
 - \ Proficient with **Bootstrap 3**
 - \ Introductory knowledge of **D3.js**
- > I am a **Git** ninja. I can fetch, rebase, branch, commit, merge, and push with ease.
- > Familiar with **PostgreSQL** and **South**
- > Four months of in-class experience with **Scheme** and **C**, currently learning **C++**

WORK EXPERIENCE:

- > **Software Developer** - Tangam Systems, May – August 2014
 - \ Developed new, full-stack web application features
 - \ Wrote backend Django application code
 - \ Implemented frontend interfaces using JavaScript and Twitter Bootstrap
 - \ Performed administrative PostgreSQL tasks and South migrations
 - \ Programmatically handled **JSON**, **CSV**, **KML**, and **GTFS** geo-data
 - \ Visualized data by implementing the Google Maps API and D3.js
 - \ Implemented a **RESTful API** to pass data from our web app to our mobile app
 - \ **Wrote tests** for new features, including integration, unit, and/or functional tests
 - \ Ran each new commit through **static code analysis** tools and **code reviews**
 - \ Worked with **Agile Development** and **Scrum**
 - \ Pushed code frequently and became a **valued member of a small dev team**

HACKATHONS:

- > 2013 University of Waterloo **Facebook Hackathon**, Jan. 24-25 2014
 - \ Worked on a **WebRTC**-based video chatting web application, utilizing a **Ruby on Rails** backend with a JavaScript, **HTML5**, and **Foundation CSS** frontend
- > **Hack the North**, Will Attend from Sept. 19-21 2014
 - \ Plan to build an Arduino-based robotic turret that tracks targets via facial recognition software

INFORMATION SECURITY EXPERIENCE:

- > I have networking know-how. I understand internet protocols and how they are used.
- > Participated in NYU Poly's 2013 Six-Week Cybersecurity Summer Mentorship Program:
 - \ Learned how to **audit source code** for security bugs and implementation errors
 - \ Learned the basics of **web application security**
 - \ Gained some experience **disassembling** and exploiting x86 binaries with **IDA Pro**
- > Participated in the 2013 NYU Poly CSAW CTF Cybersecurity Contest
- > Participating in the 2014 Matasano/Square Microcontroller Online CTF
 - \ Bypassed digital locks by disassembling and exploiting their firmware
- > Working on second stage of the Matasano Crypto Challenges
 - \ Learning how to break flawed cryptographic implementations with code
- > Familiar with network penetration testing tools **NMAP**, **Metasploit**, and **Wireshark**

LEADERSHIP EXPERIENCE:

- > Waterloo Math Orientation Week 2014 – Frontline Pink Tie Leader
 - \ Helped organize and lead a group of 100 first-years through orientation activities
 - \ Kept the group energized and social by leading icebreaker activities and cheers
 - \ Communicated effectively with other leaders to ensure that O-Week ran smoothly
- > Cofounded and helped run a profitable custom t-shirt company out of my high school as the VP of Marketing with a small team of other students in the Junior Achievement Company Program, Oct. - May 2010
- > Mentor for Big Brothers Big Sisters of Canada, Oct. 2012 - Mar.2013

EDUCATION BEING PURSUED:

- > Candidate for Bachelor of Computer Science, Honours Computer Science, University of Waterloo, Waterloo, ON, Sept. 2013 – present