Simon Joseph Hajjar

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Experience

Coinbase Software Engineer Intern   September 2016 – Present
- Developed features on the Payments team for the main web application using Ruby on Rails
- Integrated various financial APIs to facilitate Bitcoin transactions for various currencies
- Created the framework for secure Ethereum storage within Coinbase

Zenefits Security Engineer Intern   January 2016 – April 2016
- Fixed security flaws in a Django web application, such as XSS and CSRF attacks
- Executed external and internal attacks to find security exploits
- Created new libraries for secure XLSX and CSV integration into the web application

The Hospital for Sick Children Bioinformatics Intern   May 2015 – August 2015
- Developed algorithms for locating structural variations in somatic genome data
- Created data-processing pipelines for the Ewing's sarcoma genome using Python and C++

OptimalMRM Front-end Developer Intern   May 2013 – August 2013
- Coded Java applets to visualize financial simulations
- Implemented given design changes for the company website

Kira Talent Full-stack Developer Intern   May 2012 – August 2012
- With three co-workers, created a Django website for hosting live video calls

Projects

- **Baduk** The game of Go implemented using Node.js and Socket.io (github.com/19x19/Baduk)
- **Krypton** A library for cryptographic primitives in C (github.com/Cisplatin/Krypton)
- **Grandmaster** An ASCII chess game in C++ (github.com/Cisplatin/Grandmaster)
- **z-9** A minimalistic URL shortener written using Node.js (github.com/Cisplatin/z-9)
- **Snippets** Pieces of code that never got their own repository (github.com/Cisplatin/Snippets)

Education

- **University of Waterloo** Candidate for Honors Bachelor of Computer Science
- Awards granted during undergraduate include:
    - (2016) President's International Experience Award
    - (2016) Scott Kelsey Fevreau Memorial Scholarship
    - (2015) Sameer Ahuja Perseverance Award
    - (2014) Michael Egan Entrance Scholarship in Computer Science
    - (2014) President's Scholarship of Distinction

Additional Experience

- Advanced knowledge of Python and C, and experience in C++, Django, Ruby and Node.js
- Contracted by various companies to create and maintain their websites
- Regularly compete in hackathons across North America such as HackDuke and MHacks
- Participated in online bug-bounties, having found vulnerabilities in sites like NewRelic and Uber
- Worked as a teaching assistant for *MATH 137 – Calculus for Honors Mathematics I*
- Valedictorian for the 2014 graduating class of De La Salle College "Oaklands"