Simon J. Hajjar

sjhajjar@uwaterloo.ca
(416) 858-7766
http://cisplatin.xyz

Work Experience

Zenefits – Security Engineer
January 2016 – April 2016: San Francisco, California
- Protected a Django website from attacks such as CSV injections, cross-site scripting and request forgery
- Executed various attacks on the company's applications in order to find security exploits
- Presented white-hat attacks to several hundred other Zenefits engineers

The Hospital for Sick Children – Computational Genomics Developer
May 2015 – August 2015: Toronto, Ontario
- Created pipelines for processing the Ewing's sarcoma genome using Python and C++
- Developed optimizations for algorithms used to locate structural variations in somatic genomic data
- Invented graph theory algorithms to find novel mutations in cancer genomes

OptimalMRM Advisors Inc. – Full Stack Developer
May 2013 – August 2013: Toronto, Ontario
- Coded financial simulations in Java using Monte Carlo methods
- Implemented front-end design specifications using HTML, CSS and JavaScript

Kira Talent – Full Stack Developer
May 2012 – August 2012: Toronto, Ontario
- Created and developed a Django website for hosting live video calls with three coworkers
- Worked on tasks ranging from implementing a comment system for videos, to integrating social networks such as LinkedIn

Side Projects

Baduk – github.com/19x19/Baduk
An implementation of Go using Node.js and Socket.io. Created by a team led by myself and a friend, it is hosted live at http://baduk.ca/ with thousands of page views

Krypton – github.com/Cisplatin/Krypton
An implementation of cryptographic standards including various ciphers, hashes, and pseudorandom number generators, written in C

z-9 – github.com/Cisplatin/z-9
A minimalistic URL shortener, hosted at http://z-9.pw/. Built using Node.js

Grandmaster – github.com/Cisplatin/Grandmaster
The game of chess in C++, with the end goal being an AI that has a FIDE rating of at least 1400

Education

University of Waterloo – September 2014 – Present
- Candidate for Bachelor of Honours Computer Science with 87% cumulative average

Awards received at UW include:
2016: President's International Experience Award
2016: Scott Kelsey Fevreau Memorial Scholarship
2015: Sameer Ahuja Perseverance Award
2014: Egan Scholarship in Computer Science
2014: UW President's Scholarship of Distinction

Languages and Technologies
- Advanced knowledge of Python and C
- Experience with C++, Node.js and JavaScript
- Proficient in UNIX and associated shell
- Thorough knowledge of Django web framework
- Extensive experience with Git
- Working knowledge of various technologies such as Socket.io Scheme, Bootstrap and jQuery

Additional Experience
- Worked as a teaching assistant for *MATH 137 – Calculus 1 for Honours Mathematics* (2015)
- Regularly compete in hackathons across North American such as HackDuke and MHacks
- Participated in online bug-bounties, having found vulnerabilities in sites such as NewRelic and Uber
- Constantly self-learning through online resources, having completed online course such as Stanford's "Introduction to Cryptography" and MIT's "Introduction to Algorithms"
- Valedictorian for graduating class of De La Salle College (2014)