

# Simon J. Hajjar

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<http://cisplatin.xyz>

## Work Experience

### Zenefits – Software 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](https://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](https://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](https://github.com/Cisplatin/z-9)

A minimalistic URL shortener, written using Node.js. Currently hosted at <http://z-9.pw>

### Grandmaster – [github.com/Cisplatin/Grandmaster](https://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

- Working as a research assistant for *Information Security* under Sergey Gorbunov (2016)
- Worked as a teaching assistant for *MATH 137 – Calculus 1 for Honours Mathematics* (2015)
- Regularly compete in hackathons across North America such as HackDuke and MHacks
- Participated in online bug-bounties, having found vulnerabilities in sites such as NewRelic and Uber
- Valedictorian for graduating class of De La Salle College (2014)