

# CEDRIC FADEL

## COMPUTER ENGINEERING

🏠 [cedricfadel.com](http://cedricfadel.com)  
🔗 [github.com/cfadel1](https://github.com/cfadel1)  
✉ [cfadel@edu.uwaterloo.ca](mailto:cfadel@edu.uwaterloo.ca)  
in [linkedin.com/in/cedricfadel](https://linkedin.com/in/cedricfadel)

### SUMMARY

- Highly motivated individual with over 3 years of software engineering experience
- Aptitude to handle multiple project orders while working in a fast-paced, Scrum/Agile environment
- Eager to learn new skills while adapting to employment guidelines and demonstrating persistence, commitment and dedication

### EXPERIENCE

#### • Security Research Assistant

University of Waterloo | Waterloo, Canada | Jan 2018 - Present

- Researched Ethereum smart contract security vulnerabilities under Professor Vijay Ganesh
- Held seminars as well as code reviews to educate the department on research findings of Solidity, Ethereum Virtual Machine, and Blockchain vulnerabilities on smart contracts

#### • Software Engineer

NVIDIA | Santa Clara, USA | Sept 2017 - Dec 2017

- Designed and implemented a Data Health Monitoring Platform for existing data pipelines which optimized data pipeline diagnostic by 60%
- Built front-end user interface using primarily D3.js and AngularJS to visualize data hierarchies as tree structures and graphically represented their key performance indicators
- Built back-end services that interact with data pipeline components such as Hadoop, Kafka, Logstash, Elasticsearch, Kibana and Kangaroo to fetch and store their status using Java Spring framework and PostgreSQL

#### • Full Stack Software Consultant

BDO Solutions - Systems Group | Toronto, Canada | Jan 2017 - May 2017

- Designed and implemented security features for a web portal such as its audit trail, the reset password page and the login page amongst others using C#, SQL, JavaScript and AngularJS
- Enhanced web portal's performance by 60% by making audit trail's design multithreaded
- Built end-to-end MVC features such as user management using C#, SQL and JavaScript

#### • Software Developer

MedAvail | Mississauga, Canada | Sept - Dec 2015, May - Aug 2016

- Implemented a web-service platform that periodically fetched and displayed the status of existing development branches as well as their virtual appliances on a web page
- Created .msi installers using WIX to accelerate the installation of web-services by 150%
- Fixed bugs and implemented new features on embedded software and various websites primarily using C#, SQL, HTML, CSS, KendoUI, JQuery and JavaScript

### PROJECTS

#### • Blogging (Web App - AngularJS)

- Implemented from scratch a personal website written fully in AngularJS which includes a blog section
- Blogging topics related to convolutional networks and research regarding Ethereum smart contract security vulnerability

#### • Keylogger (Console Application - C++)

- Records and encrypts keyboard and mouse inputs using Windows API hooks and emails it to user using PowerShell script

#### • Stock to Date (Windows App - C#)

- Dynamic information interface app that fetches the price and status of Gold, US Dollar and European Euro on a daily basis

### EDUCATION

#### University of Waterloo

Sept 2014 - Expected (April 2019)  
BAsC, Computer Engineering

### SKILLS

#### Languages

- C#
- C++
- Python
- HTML
- MySQL
- Java
- JavaScript
- Solidity
- CSS
- PostgreSQL

#### Tools & Frameworks

- AngularJS
- Apache Thrift
- Git, TFS
- Smart Contracts
- ASP.net MVC6
- Hadoop
- Node.js
- Java Spring
- Kali Linux
- Illustrator

### ADDITIONAL COURSES

#### Udemy

- The Complete Ethical Hacking Course

#### Coursera

- Cryptography I

Lorem