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Dear Hiring Manager,

I have recently graduated from the Computer Science Program at Carleton University, and am looking for employment in the Computer Science field. As a candidate with a strong academic background, relevant experience and good communication skills, I am confident that I could make a positive and productive contribution to your organization.

My coursework and work terms as a Computer Science student has exposed me to an extensive set of programming experiences. While working for Public Health Agency of Canada I have built several webpages using ASP.net and dotnetcharting, as well as d3.js to build user friendly, accessible infographics to be viewed by the public. During my school terms I have worked on several notable projects, one of which was to design a beacon sorting algorithm, the goal being to achieve the most optimal solution with the fewest number of moves. Another team project was to create an Android application following an agile development strategy. Bi-weekly sprints were used to assure everyone was keeping up, and to assist those who were having difficulties.

On my own time I have participated in two Ethereum hackathons, where I worked as part of a team to develop a TypeScript implementation of the JavaScript code used for interacting with Ethereum nodes, as well as a decentralized application where users could work together to color in a blank canvas using Ethereum transactions. I have also built several projects with friends, including a cryptocurrency mining farm management system and a Discord bot that interacts with a REST API to keep up to date information. I have become much more familiar with a variety of other programming languages and frameworks, including Java, Kotlin, C#, C, C++, R and Python as well as web development frameworks including React, Redux and ASP.net. I have also worked with SQL, MongoDB and Firebase for database management, and JUnit, Selenium, Jest, Mocha and Chai for testing.

In my past employments and school activities I have developed my leadership and teamwork skills. In addition, I have also acquired transferable skills such as the ability to identify and solve problems, excellent verbal and written communication skills, and a strong attention to detail that will help me succeed and contribute effectively as part of your development team.

I believe my technical skills, past work experiences and willingness to learn would make me an excellent employee. I would appreciate the opportunity to tell you more about myself and learn more about the position. Thank you for your time and consideration. I look forward to hearing from you.

Sincerely,

*Michael Stupich*

Michael Stupich

# MIKE STUPICH

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135 Macassa Circle, Ottawa ON

## EDUCATION

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### Carleton University, Ottawa

January 2019

Bachelors in Computer Science

Received Entrance Scholarship

Exposure to extensive programming experiences, projects and languages

## NOTABLE SCHOOL PROJECTS

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### Depth to ls command — Linux Kernel Modification

*C, Kernel*

- Added depth augmentation to *ls* command of any UNIX OS to display file tree of the current directory
- Extension called with *ls -M* and can be given an optional depth to display to with *ls -M --depth=4*

### NavU — Android App

*Android, Java*

- Android app to help users navigate between classrooms and buildings at Carleton University
- Notified users of upcoming classes and guided them there from their current location

## WORK EXPERIENCE

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### Canada Revenue Agency, Ottawa

May 2017 - September 2017

*Web Applications Developer*

- Created and maintained new intranet web pages and forms following Government Canada's accessibility guidelines, and managed the queries for a PostgreSQL database
- Created and tested Java web apps using Struts 2 and JUnit

### Health Agency of Canada, Ottawa

May 2016 - April 2017

*Web Developer*

- Redesigned health related infographics into more user-friendly and accessible web pages for the general public using dotnetcharting and d3.js
- Developed and maintained web pages in ASP.net and managed database with Microsoft SQL Server

## SKILLS AND TECHNOLOGIES

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### Languages

TypeScript, JavaScript, Solidity, Java, Kotlin, Python, C, C++, SQL, HTML, CSS

### Technologies

Node.js, Yarn, npm, pip, Firebase, Git, Android Studio, Visual Studio, MongoDB, SQL Server

### Testing and Frameworks

React, Redux, React-Native, d3.js, dotnetcharting, Jest, Mocha, Chai, Selenium, JUnit

### Strengths

Hard-working, Problem Solving, Critical Thinking, Adaptable, Leadership, Teamwork, Eager to Learn, Innovative and Open to New Ideas

## PERSONAL PROJECTS

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### **Typ3 — Web3.js TypeScript Replacement**

*TypeScript, Solidity, Node.js*

- Qualified and participated in the ETHWaterloo Ethereum Hackathon where I worked in a team to develop a Typescript implementation of Web3.js
- Created a command line tool to convert a Smart Contract to a strongly typed file, to allow for type inferencing for easier TypeScript development
- Built a tool to replace web3 for interacting with an Ethereum node via wrapped RPC-calls

### **Clevermine — Cryptocurrency Mining Management Software**

*TypeScript, C++, Node.js*

- Worked as a team to develop a software which manages large cryptocurrency mining farms
- Client-server application that would keep all devices online and mining as efficiently as possible
- Wrote a C++ wrapper for controlling overclocking, fan speed, voltage, etc. of NVIDIA graphics cards
- Wrapped both NVIDIA and AMD GPU controls to be utilized by Typescript code

### **Ethereum Contract Dashboard**

*TypeScript, React, Node.js*

- Dashboard that displays updated information of an Ethereum contract address
- Alerts user if certain suspicious conditions have been met
- Plan to allow users running their own Ethereum node to enable sending a stop or kill transaction to a user created contract

### **Placeth — Ethereum version of Reddit's r/place**

*JavaScript, HTML, CSS, Solidity*

- Qualified and participated in ETHDenver Ethereum Hackathon
- Crated a small-scale version of Reddit.com's r/place, where subreddits would work together to create large images by individually coloring one small box per hour
- Worked in a team to develop an Ethereum contract and web app that allows users to color a tile of a large canvas by sending an Ethereum transaction

### **DiscoBot — Discord Bot**

*TypeScript, Node.js, Heroku*

- Collaborated to build a Discord bot that facilitates our Discord server's needs
- Primarily used for cryptocurrency price and info fetching via API calls
- Also used for scheduling events and providing notifications to users
- Hosted and running as a Heroku cloud-based app