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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. Two-week sprints with scrums every second day 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 of four 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 other projects with friends, including a cryptocurrency mining farm management system and a Discord bot that interacts with a REST API to provide users with up to date information. I have become much more familiar with a variety of other programming languages and frameworks, including Java, Kotlin, Python, C, C++, R, HTML and CSS as well as web development frameworks React, Redux, Bootstrap and ASP.net. I have also worked with SQL, MongoDB and Firebase for database management, and Jest, Mocha, Chai, JUnit and Selenium 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

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Education

BSc | Computer Science Major

Carleton University | Jan 2019

- Received Entrance Scholarship
- Exposure to extensive programming experiences, projects and languages
- 2.95 Major CGPA, 2.76 Overall CGPA

Notable School Projects

Depth to ls command C, Kernel

- Added depth augmentation to ls command of any UNIX OS to display file tree of the current directory
- Modified the Coreutils package, and rebuilt the kernel to test modifications
- Extension called with ls -M

NavU Android, Java

- Android app to help users navigate between classrooms at Carleton U
- Notified users and guided them to their upcoming classes
- Followed an agile approach with two week sprints and daily scrums

Skills and Technologies

Languages

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

Testing and Frameworks

React	Jest
Redux	Mocha
Bootstrap	Chai
d3.js	JUnit
ASP.net	Selenium

Technologies

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

Strengths

Hard-working	Leadership
Problem Solving	Teamwork
Critical Thinking	Eager to Learn
Adaptable	

Experience

Canada Revenue Agency | Web Applications Developer

May 2017 - September 2017

- Created and maintained new intranet web pages following Government Canada's accessibility guidelines, and managed the queries for a PostgreSQL database
- Built, tested and maintained Java web apps using Struts2 and JUnit

Health Agency of Canada | Web Developer

May 2016 - April 2017

- 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 MS SQL Server

Personal Projects

Typ3 | Web3.js TypeScript Replacement

TypeScript, Solidity, Node.js

- Qualified and participated in the ETHWaterloo Ethereum Hackathon where I worked in a team of four 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.js 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 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

Placeth | Ethereum version of Reddit's r/place

JavaScript, HTML, Solidity, Bootstrap

- Qualified and participated in the ETHDenver Ethereum Hackathon
- 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 a transaction

DiscoBot | Discord Bot

TypeScript, Node.js, Heroku

- Collaborated to build a Discord bot that facilitates our Discord server's needs
- Fetches and caches cryptocurrency price and info via API calls
- Hosted and running as a Heroku cloud-based app

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