

# Cameron Fairchild

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## Education

### **Bachelor of Science (B.Sc.) in Computer Science | cGPA: 3.65**

University of Toronto, Toronto, ON

*September 2019–May 2024 (Expected)*

- Relevant Coursework: Intro to Computer Science (Python 3), Software Tools & Sys. Programming (C/Unix), Operating Systems (OSTEP, C, UNIX), Intro to Machine Learning (pytorch, sklearn), Intro to Databases (SQL, Schema Design), Programming on the Web (JS, HTML, CSS, ReactJS, jQuery, NodeJS, ExpressJS), Software Design (Java, OOP), Computer Organization, Hardware/Circuits, MIPS ASM), Data Structures & Analysis, Mathematical Expression and Reasoning for Computer Science, Linear Algebra I & II, Calculus I & II, Concepts in Abstract Mathematics, Probability & Statistics I, and Statistical Theory

## Work Experience

### **Machine Learning Software Engineer Intern (Bittensor) | <https://bittensor.com/>**

OpenTensor Foundation, Toronto, ON

*May 2022–Present*

- Helped to build and improve the neural internet.

### **Back-End Software Developer Intern**

LeapGrad Corp., Toronto, ON

*May 2021–August 2021*

- Contributed to an existing REST API written in Node.js, Express.js and Mongoose (MongoDB), implementing new features, and increasing the usability of the platform for users.
- Wrote unit and integration tests using Mocha and Chai, improving test coverage for new and existing features.
- Received and integrated code reviews and participated in bi-weekly Agile sprint meetings.
- Leveraged the joi library to write API request validation schemas, providing better and more descriptive API error responses.
- Implemented OpenAPI 3.0 documentation and a SwaggerUI server for existing and new API routes, complete with GitHub OAuth authentication to protect access to the documentation using GitHub REST API. This simplified communicating API usage between the back-end and front-end teams.
- Implemented a Docker configuration for the back-end server, including documentation and installation steps. This facilitated and streamlined local testing of the current back-end revision for front-end devs who otherwise would have trouble installing the required dependencies.

### **Retail Associate**

SickKids, Toronto, ON

*August 2020–April 2022*

### **Merchandiser**

Shoppers Drug Mart, Bowmanville, ON

*July 2017–August 2020*

## Projects

### **6ix Fix | [github.com/camfairchild/6ixfix/](https://github.com/camfairchild/6ixfix/)**

- A web app for mechanics classifieds in Toronto, ON. Created for CSC309H1 at UofT.
- Front-end written in ReactJS. Back-end written in NodeJS, ExpressJS, and MongooseJS (MongoDB).

### **Text-it-search-it | [github.com/camfairchild/text-it-search-it/](https://github.com/camfairchild/text-it-search-it/)**

- Automated SMS hotline written for Hack The 6ix 2021 with 3 other team members.
- Allows a user to text a phone number to receive search results, directions, translations, the weather, or a random joke.
- Uses Twilio for SMS, various APIs (Google, jokeapi, weatherbit), Docker for containerization, and Flask for the REST API.

### **darts.py | [github.com/camfairchild/darts/](https://github.com/camfairchild/darts/)**

- A personal project used to score a dart game in the CLI.
- Allows the user to input equations using multiplication and addition for simple score input.
- Makes scoring dart games easier, requiring less math and improving gameplay.

## Skills

**Comfortable:** JavaScript, Node.js, Express.js, Mongoose.js (MongoDB), Git version control, Python, HTML, Postman

**Familiar:** SQL (postgresql), Java, JavaFX, React, CSS, Mocha/Chai, Flask, C (gnu99), yaml

## Certifications

- FreeCodeCamp - APIs and Microservices, *June 2020*
- FreeCodeCamp - JavaScript Algorithms and Data Structures, *June 2020*