

ALI TAHA

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Experience

Waterloo Formula Electric Design Team

October 2022 – Present

Firmware Developer

Waterloo, Ontario

- Utilized industry standard tools like **Bitbucket** and **Jira** to track project progress and issues.
- Implementing **low-level hardware control** using **C**, including adding new events and warnings for battery states.

Enginera

January 2021 – June 2022

Front End Developer/Media Manager

Mississauga, Ontario

- Utilized **HTML**, **CSS**, and **JavaScript** to create interactive and visually appealing web pages.
- Utilized **responsive design** techniques to ensure that our club's website was mobile-friendly and accessible on mobile.
- Communicated with University of Waterloo alumni to prepare over **12 panels**, attended by over **230 members**.

FIRST Robotics Team

September 2020 – April 2022

Programming Captain

Mississauga, Ontario

- Awarded as **District Event Winner** in **Rapid React** (2022), and received that **Autonomous Award** sponsored by Ford and **District Event Finalist** in **Infinite Recharge** (2020).
- Utilized version control systems such as **Git** and to manage the team's codebase, assign tasks and track changes.
- Mentored and coached over **40** subteam members in **Java**, while collaborating with electrical and mechanical teams to seamlessly integrate the robot's control systems into the overall design.

No Frills

November 2019 – April 2020

Cashier

Mississauga, Ontario

- Contributed to the team by taking on additional responsibilities from supervisors and supporting coworkers as needed.
- Utilized point-of-sale (**POS**) **software** to process transactions, handle returns, and resolve discrepancies.
- Attended over **60 customers each shift** in a fast-paced environment, **33% more efficient** than average.

Projects

🔗 LikeIt Social Media Web App | *HTML, CSS, JavaScript*

December 2022

- The application uses **HTML**, **CSS**, and **JavaScript** for the front-end and **React**, **Redux**, and **Node.js** for the back-end.
- It uses **MongoDB** as the database to store user data, such as profiles, posts, and comments.
- The application uses **Express.js**, a web framework for Node.js, for routing and handling HTTP requests.
- Users can sign up and log in to the application using their email and password, secured by **JWT** authentication.
- Users can **create** and share **posts** with text, images, or links, and even like other users' photos.
- They can create their own profile and customize it with a profile picture and bio.
- The application implements **privacy** and **security** features, such as securely storing passwords in MongoDB using the **bcrypt library** to **hash** the passwords before inserting them into the database.

🔗 Dogsitter: Hack The North Project | *HTML, CSS, JavaScript, Ruby*

September 2022

- Collaborated with **three** others in a **team** to create a dog-sitting **full stack** website in under **36 consecutive hours**.
- Uses a **SQLite** database for storing data locally, and uses **HTML**, **CSS**, **JavaScript**, and **REACT** for front-end.
- The **backend** of the website is built using Ruby on Rails, which also supports connecting to a **MySQL** database
- The website uses **Ruby** for server-side programming and implementing business logic
- Users can leave **reviews** and **ratings** for dog-sitters, which are stored in the database.

🔗 Shopping Database | *Java*

December 2021

- Program manages a shop's **database**, maintaining **inventory** and **customer records** in two separate text files.
- Utilized programming techniques such as **file I/O**, **OOP**, and **data parsing** to efficiently read and update the text files.

🔗 Galactic Capitalist | *Java*

October 2021

- The game is played in the terminal, using text-based input and output
- The game uses **object-oriented programming** concepts such as **Inheritance**, **Polymorphism** and **Encapsulation**.
- The game is space-themed, and players travels to different planets in a spaceship, where they can **sell** and **buy** objects.

Technical Skills

Languages: Java, C, C++, Python, HTML/CSS, JavaScript

Frameworks and Libraries: MongoDB, Node.js, Express.js, React, Redux

Certificates: Trustee's and Joe Hugel Award for having the highest average (99%), Harvard CS50x Certificate

Education

University of Waterloo

Sep. 2022 – May 2027

Candidate for Computer Engineering Honours, Co-operative Program

Waterloo, ON