

# 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
- Coached over **40** team members in **Java** to seamlessly integrate the robot's control systems into the overall design

### No Frills

November 2019 – April 2020

*Cashier*

*Mississauga, Ontario*

- 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

- Deployed **over 6** interactive features, including smooth scrolling and a search bar, using **HTML**, **CSS**, **React**, **Redux** and **JavaScript** for the front-end, and **Node.js** for scalable and efficient server-side development in back end
- Instated a **storage** solution for user data, such as profiles, posts, and likes utilizing **MongoDB** as the database
- Integrated real-time updates and user interactions using **Express.js** for routing and handling HTTP requests
- Maintained **privacy** features by implementing JWT authentication and using the **bcrypt** library to **hash** passwords

### 🐙 Dogsetter: 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
- Stored data locally using a **SQLite** database for, and used **HTML**, **CSS**, **JavaScript**, and **REACT** for front-end
- Storage of user data, such as reviews, developed using **Ruby on Rails**, which is connected to a **MySQL** database
- The website uses **Ruby** for server-side programming and implementing business logic

### 🐙 Shopping Database | *Java*

December 2021

- Managed 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
- Uses **object-oriented programming** concepts such as **Inheritance**, **Polymorphism** and **Encapsulation** to design maintainable and **scalable** code, as well as loosely coupled architecture, to make it easier to add new features
- 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:** Loran Scholar Honor Citation (**1 of 60**) , Trustee's and Joe Hugel Award: average (99%), Harvard CS50x

## Education

### University of Waterloo

Sep. 2022 – May 2027

*Candidate for Computer Engineering Honours, Co-operative Program*

*Waterloo, ON*