ALI TAHA

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Technical Skills

Languages: Java, C, C++, Python, HTML/CSS, JavaScript
Frameworks and Libraries: MongoDB, Node.js, Express.js, React, Redux
Certificates: Loran Scholar Citation (**1 of 60**), Trustee's and Joe Hugel Award:(**99%**) average, Harvard CS50x

Experience

Waterloo Formula Electric Design Team   October 2022 – Present
Firmware Developer   *Waterloo, Ontario*
- Resolved over **3 linter** tasks and tracked team progress using industry standard tools like **Bitbucket** and **Jira**
- Implemented **low-level** hardware control using **C**, including adding 10 new events warnings for battery states

Enginera   January 2021 – June 2022
Front End Developer/Media Manager   *Mississauga, Ontario*
- Increased the daily page visit count by **50 visits** through the implementation of interactive forms, navigation and dropdown menus, built with **HTML**, **CSS**, and **JavaScript**
- Implemented mobile-friendly **responsive** design for 3 screen sizes, resulting in a **15%** mobile traffic increase
- Communicated with University of Waterloo alumni to prepare panels, attended by over **230 members**

FIRST Robotics Team   Spetember 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)
- Managed a codebase and collaborated with over **12 developers** using **Git** to assign tasks and track code 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*
- Processed transactions, resolved discrepancies, and handled returns using point-of-sale (POS) software
- 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
- Implemented server-side infrastructure using **Node.js**, ensuring efficient handling of high data and user traffic
- 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

⊙ **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
- Implemented over 6 interactive features using **REACT** and **Redux** library, including smooth scrolling and a search bar
- Developed a method for user data storage using using **Ruby on Rails**, connected to a **MySQL** and **SQLite** database
- Implemented business logic and server-size programming using **Ruby**

⊙ **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
- Developed a text-based terminal game using **OOP** principles for maintainable, scalable code with a loosely coupled architecture for easy feature addition
- Developed test cases using **JUnit** to ensure high code coverage and maintain a high level of code quality

Education

University of Waterloo   Sep. 2022 – May 2027
Candidate for Computer Engineering Honours, Co-operative Program   *Waterloo, ON*