

Abdelrahman Merdan

Mississauga, Ontario, L5N 8E7 | bodo010501@gmail.com | (+1) 647 785 6561 |
[GitHub/AbdelrahmanMerdan](https://github.com/AbdelrahmanMerdan) | [LinkedIn/AbdelrahmanMerdan](https://www.linkedin.com/in/AbdelrahmanMerdan) | [Portfolio](#)

EDUCATION

York University, North York, ON, Canada Expected Graduation: 2026
Bachelor of Science. Computer Science, Specialized Honours (Software Development Stream) (2nd Year)

- Relevant Coursework: Fundamentals of Data Structures and Algorithms, Software Development Life Cycle

University of Toronto, Toronto, ON, Canada Transferred: 2022
Bachelor of Arts. Architectural Studies

- Relevant Coursework: Design Studio, Technology Studio, Computation and Design, Visual Strategies

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, Python, Java, C/C++, TypeScript
- **Technologies:** Node.js, TensorFlow, Selenium, HTML/CSS, MySQL, MongoDB, React, Git, Docker

RELEVANT EXPERIENCE

Developer Co-op – Ministry of Children, Community and Social Services April 2023 – September 2023

Technologies: *Python, Selenium, React, Visual Studio Code, WAVE, axe DevTools, NVDA, ARC*

- Developed and implemented a robust automated testing framework using Selenium and Python within an Agile team, creating over 100 test scripts for both happy path and edge cases. This proactive approach identified 30% more errors during development, significantly enhancing code quality and reducing post-release defects.
- Conducted WCAG 2.1 AA compliance testing on 50+ Ontario government websites using industry-standard tools such as WAVE, axe DevTools, NVDA and ARC, ensuring 100% of user paths met accessibility standards.

Web Developer – MMB Planning April 2023 – September 2023

Technologies: *TypeScript, React, Visual Studio Code, Netlify, Adobe Creative Suite* [MMB Planning.com](https://www.mmbplanning.com)

- Designed a responsive website to showcase the startup company's services leveraging **TypeScript** and **React** and deployed the website on Netlify, leading to a **30%** surge in job inquiries and project opportunities.
- Conducted competitor analysis to identify market trends and enhance the platform's features, resulting in a **50%** increase in user engagement.

PROJECTS

Secrets – A Journal Entry Website (Full Stack) github.com/Secrets

Technologies: *JavaScript, NodeJS, ExpressJS, MongoDB, Railway, HTML / CSS, Figma, GitHub Pages*

- Designed and deployed a journal entry website showcasing proficiency in front-end technologies such as **JavaScript**, **HTML**, and **CSS**. Optimized the interface to display **50+** journals simultaneously for an efficient user experience.
- Developed, tested, and debugged back-end services with **Node.js** and **Express.js** and created a **RESTful API** for front-end and back-end communication. Managed user data with **MongoDB** to efficiently store **30+** users using **JSON** and successfully **deployed** the website on Railway.

RecipeRadar – A Recipes Web Application (Full Stack) github.com/RecipeRadar

Technologies: *Python, Django, TensorFlow, React, MySQL, Docker, Figma, Visual Studio Code, Netlify*

- Participated in a 7-day **hackathon** to develop a recipe application that stores **1000+** ingredients and recipes using **MySQL**.
- Implemented a recommendation system using **TensorFlow's** deep learning model and natural language processing to improve user experience in discovering recipes based on saved ingredients, achieving a **95%** accuracy rate.

OTHER EXPERIENCE

Urban Design Intern – City of Brampton April 2021 – September 2022

Technologies: *AutoCAD, Python, Rhinoceros 3D, Adobe Suite, Microsoft Suite*

- Devised and implemented an email automation program using **Python** and **Excel**, resulting in a **95%** reduction in the time required to send **200+** emails.
- Utilized industry-standard productivity software such as Microsoft Word, Excel, and PowerPoint to support a cross-functional team in creating graphical analyses for developmental proposals and achieved a **100%** alignment rate with city policy.