

Abdelrahman Merdan

Mississauga, Ontario, L5N 8E7 | merdanabdelrahman@gmail.com | +1 647 785 6561 | Portfolio

LinkedIn/AbdelrahmanMerdan | Github.com/AbdelrahmanMerdan

Experience

Software Developer, Ministry of Public and Business Service Delivery and Procurement Jul 2025 – Present

- Led a 6-person team in building an Azure Databricks and Microsoft Fabric medallion Lakehouse platform that automated ingestion, processing, and classification of 500+ articles into structured datasets enriched with sentiment and keyword analysis across 8 policy domains.
- Drove an evidence-based intranet redesign by conducting research with 60+ users, creating six personas, and optimizing information architecture, reducing pages from 230 to 106 and homepage links from 41 to 18, significantly improving usability and navigation.
- Spearheaded the end-to-end design and development of the departmental homepage and 25+ intranet pages, creating wireframes in Figma and coding them with HTML, CSS, and React while meeting WCAG 2.2 standards.
- Developed a modular design system with 15+ reusable UI components, creating assets in Adobe Illustrator and Photoshop and integrating them into a shared Figma component library to ensure interface consistency.
- Engineered a Power BI dashboard using DAX-based data transformation to aggregate information across 50+ database tables, centralizing compliance reporting for 500+ applications and 2,000+ administrators.
- Restructured the relational data model supporting government application compliance tracking, consolidating 50+ tables into 10 interconnected tables using SQL to improve data organization and maintainability.
- Implemented and maintained 50+ features across 5 React applications using JavaScript, managing source control, branching, and code integration through Azure DevOps within Agile development cycles.

Software Developer Co-op, Ministry of Children, Community and Social Services Apr 2024 – Jul 2025

- Conducted WCAG 2.1 AA accessibility audits and code reviews for 75+ Ontario government websites using WAVE, Axe DevTools, NVDA, and ARC providing technical expertise and delivering remediation plans that achieved 100% compliance across user paths.
- Built and executed 50+ Selenium-Python automation scripts for functional and regression testing, uncovering 30% more defects, improving code quality, and reducing post-release issues within an Agile workflow.
- Integrated Google Analytics into 5 web applications to track website traffic and user engagement, supporting data-driven analysis of user interactions.

Web Developer Contract, MMB Planning and Architecture Apr 2023 – Sep 2023

- Designed, developed, and published 10+ responsive pages using TypeScript and React, incorporating interactive elements such as forms and carousels, performing cross-browser and device testing, and deploying on Netlify.
- Conducted competitor analysis, stakeholder interviews, and user research with 20+ participants to gather requirements and inform design decisions, resulting in optimized website features and layouts that increased job inquiries and project opportunities by 30%.

Education

York University, North York, ON, Canada Expected: 2027

Bachelor of Science. Computer Science Specialized Honours (Software Development Stream) (4th Year)

- **Coursework:** Mobile User Interfaces, Software Development Project, Building E-Commerce Systems

Technologies

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

Technologies: Azure Databricks, Microsoft Fabric, Node.js, Selenium, MySQL, MongoDB, React, Power BI, Docker

Certifications: Microsoft Azure AI Fundamentals, Microsoft Azure AI Engineer Associate (In Progress)