

ABRAR JAWAD TARAFDER

Toronto, ON, Canada

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🐙 github.com/abrararafder 🌐 abrararafder.github.io/portfolio-short

Education

York University, Lassonde School of Engineering

Toronto, ON

Honours Bachelor of Science, Computer Science

Apr 2022 – Aug 2026

- **Relevant Courses:** Advanced OOP, Discrete Math I & II, Calculus I/II/III, Linear Algebra, Theory of CS, Elementary Probability, Data Structures & Algorithms, Database Management, Software Design, Operating Systems

Ontario Tech University

Oshawa, ON

Honours Bachelor of Science, Computer Science

Sep 2021 – Apr 2022

Experience

Hydro One

May 2024 - Aug 2025

OT Transmissions Application, Co-op

Barrie, ON, Canada

- Developed an in-house application for biweekly database releases using ReactJS, Bootstrap, and PostgreSQL, ensuring responsive design and **optimized server performance**.
- **Automated error handling** in GitLab by building Python scripts to parse and convert logs into XML, improving external pipeline workflows.
- Developed reusable GitLab **CI/CD pipelines** with PERL and PowerShell, automating manual workflows and achieving a **98%** efficiency gain while improving scalability and consistency.
- Created a general shuttle pipeline template to accelerate server-to-server file transfers, reducing time by **73%**, and trained other co-ops to support long-term scalability.
- Automated the GE EMS LiveSnap loading process by developing GitLab pipeline and PERL scripts, **reducing load time** by **87%**.
- Redesigned the Data Services Team's SharePoint site and proposed a Power Automate solution for streamlined notifications and migration.
- **Maintained QA and Development** servers in GE EMS, performing efficient monthly updates of savecases and equipment data.
- Performed data uploads and mapping for asset acquisition, ensuring accurate nameplate photo tracking and in-service documentation.
- Developed SQL validation scripts within GE Source to automate field checks, triggering **real-time error alerts** and improving entry accuracy for the Application Modelling team; version-controlled in GitLab.

WalkWithWeb Inc.

May 2023 – May 2024

Junior Software Developer & Outreach Research Assistant

Toronto, ON, Canada

- Researched, designed, and developed websites using HTML, CSS, Bootstrap, and JavaScript, facilitating seamless user interaction within a visually captivating environment amongst **3 departments**.
- Crafted Figma **interactive wireframes** for the websites and contributed significantly to marketing strategies, social media analysis, and graphic design, increasing the amount of output by **50%**.
- Designed templates, banners, and posts on Canva for easy navigation to WalkWithWeb and its partners, increasing social media **post engagement** by **20%**.

Volunteer Experience

Jarvis Consulting Group

Apr 2023 - Apr 2024

Student Ambassador Team Lead

Toronto, ON, Canada

- Leading a team of **14 Computer Science and Engineering** students to engage in immersive tech-related events.
- Utilized development toolkits to actively engage in these experiences, resulting in a Hackathon win.

Projects

Data Analytics Capstone 🔄

- Led a data-driven marketing strategy to convert casual bike riders into annual members, analyzing over **430,000** ride records with SQL, R, and Python; identified key usage patterns and digital media tactics, achieving a **25%** conversion rate increase.

Technical Skills

Languages: Python, Java, JavaScript, C++, PHP, SQL, YAML, HTML/CSS, PowerShell, Perl, R

Developer Tools: Git, MongoDB, Tableau, Power BI, Power Automate, Power Apps, GE IGrid, Jira, Figma, Canva, Adobe InDesign, Microsoft Visio, GE EMS

Frameworks: React, Bootstrap, TKinter