Ibraheem M. Hussain

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EDUCATION & AWARDS

Honours Bachelor of Science, University of Toronto — Jun 2028 (Expected)
Computer Science Specialist with a Focus in Artificial Intelligence - Arts & Science Internship (Co-op) Program

- *Coursework included: Structures & Algorithms, Computer Organization and Programming, Objects & Design.*

Reuben Wells Leonard Scholarship, University of Toronto — Oct 2024
Recognized for academic excellence, awarded through the Colonel R.W. Leonard Bequest to high-achieving students across Ontario.

WORK EXPERIENCE

Software Developer — Toronto, Ontario
University of Toronto Web Development Club — Oct 2025 - Present

- Selected to join a cross-campus developer team collaborating with **Durham One** to plan and build a website and digital services for the **Umoja Basketball Camp**, supporting over **200+ youth participants** annually.
- Contributing to project scoping, feature design, and sprint planning to develop a scalable, community-focused platform aligned with Durham One's outreach goals.
- Designing core site layouts and user flows using **Figma, UI/UX principles, and accessibility-focused components** to ensure an intuitive experience for campers and parents.

Front-End Engineer — Toronto, Ontario
University of Toronto Artificial Intelligence Group (UofT AI) — Sep 2025 - Present

- Recently selected to join the UofT AI development team as a **Front-End Engineer**, contributing to the design of **responsive, user-focused web interfaces** using **React.js, JavaScript (ES6+), HTML5, and CSS3** for AI research and community projects.
- Assisted in **building reusable UI components** and ensuring **cross-device accessibility** to help optimize front-end performance by over **90%.**
- Participated in team discussions and code reviews to **refine interface layouts**, **improve usability**, and **ensure consistency** with UofT AI's design standards.

Arrive Ready Computer Science Intern — Toronto, Ontario
University of Toronto, Faculty of Arts and Science — May 2025 - Aug 2025

- **Mentored** incoming first-year Computer Science students through webinars and one-on-one guidance, **providing course-planning advice** and **study strategies** that helped over **50+ students** transition smoothly into university life.
- **Coordinated and drafted 10+ outreach emails** and resource guides for students and staff, demonstrating strong written communication and the ability to **translate complex academic information into clear, actionable steps**.
- **Collaborated in a working group to build a Python NLP pipeline** that analyzed **5K+ social media captions**, comparing engagement metrics with readability and length to deliver insights with **99% accuracy**.

PROJECTS

Movie Recommendation System

- Developed a **Movie Recommendation System** that achieved **90% accuracy** in personalized recommendations using **collaborative** and **content-based filtering** techniques, enhancing user experience by tailoring movie suggestions based on **user preferences** and **viewing history**.
- Employed **data preprocessing** and **machine learning** techniques to clean and model **10,000+ data entries**, showcasing proficiency in **Python**, **Pandas**, and **scikit-learn** libraries for data-driven solutions.

Interactive Expense Tracker

- Developed an **interactive web-based expense tracker** using **HTML, CSS, and vanilla JavaScript** to promote **financial literacy**; implemented real-time UI updates and **localStorage** for data persistence.
- Showcased at **Hackonomics 2025** hackathon, emphasizing **usability and technical reliability.**

Oakland, CA Weather Prediction Model

- Developed a predictive model for **Oakland, CA**, using **Ridge regression** in **scikit-learn**, achieving **over 99% accuracy**
- Conducted advanced **data preprocessing** and **feature engineering** with **pandas**, enhancing prediction accuracy by refining historical temperature and precipitation metrics.

SKILLS

Programming Languages: Python, Java, HTML, CSS, JavaScript, R
Tools and Libraries: MS Office Suite, Pandas, scikit-learn, NumPy, textstat, React
Developer Tools: Git, GitHub, VS Code, Jupyter Notebook, Figma