

Ryan Merheby

+1-437-326-8612 | ✉ rmerheby03@gmail.com | [in LinkedIn](#) | [GitHub](#) | [Website](#)

EDUCATION & QUALIFICATIONS

University of Toronto

Toronto, ON, Canada

HBSc in Computer Science; Arts and Science Internship Program; GPA: 3.95/4.00

Sept 2021 - Apr 2026

- **Honors & Awards:** 2023 & 2024 Dean's List Scholar, Chancellor's Scholarship for High Academic Achievement
- **Activities & Research:** Started and led two officially recognized study groups for foundations of CS

Languages & Technologies: Python, Java, C++, JavaScript, HTML/CSS, SQL, Haskell, Git, Django, React, Groovy

University of Toronto

Toronto, ON, Canada

Teaching Assistant

Sept 2025 - Dec 2025

- Leading weekly labs for CSC207 (Software Design) in the Fall semester
- Grading midterms, exams, and final projects

Meta

Bellevue, WA, United States

Software Engineer Intern

May 2025 - Aug 2025

- Worked on the AI Infra team, using **PyTorch** to optimize model processing for Instagram & Ads
- Built a multi-stage validation component in the model processing workflow - mitigating a validation gap that impacted many production models & caused major outages
- Extended the project by creating a suite of CLI tools for ad-hoc weight validation of published model snapshots
- Implemented distributed chunk processing of weight pruning as a side project, decreasing peak memory usage by **14%**

Veeva Systems

Toronto, ON, Canada

Software Engineer Intern

May 2024 - Apr 2025

- Led development of **Java** internal debugging tool allowing for secure API calls in customer instances
- Added multivalued fields for user info & optimized aggregation calls, reducing user table load times by **~0.2 seconds**
- Created new DB tables, service & API for new revision history feature for medical data processing tasks
- Wrote **Groovy** scripts for Pfizer & Bayer to convert medical data to match regional standards

University of Toronto

Toronto, ON, Canada

Student Researcher

May 2024 - Aug 2024

- Wrote research report & presented project on applying 1st order logic to create **explainable AI** in generative design
- Converted natural language → 1st order logic → generative design models using Fusion 360 API & a fine-tuned LLM

Careem

Dubai, UAE

Data Engineer Intern

Jun 2023 - Aug 2023

- Designed a dynamic resource routing model for **PrestoSQL** queries boosting performance by **~10%**
- Conducted data visualization & created **Grafana** performance dashboards for the query engine
- Developed features & wrote **JUnit/Mockito** tests for the migration from PrestoSQL to Trino

PROJECTS

DebrisMine - Environment-focused Social Media App for non-profit Oceanic Impact:

- Worked with **7** developers to expand the **React Native** app to include groups, article posting, likes & comments
- Implemented **Django** backend MVC architecture for new features & **selenium** article web scraping

PetPal - Pet Adoption Website [↗](#):

- Led a team of **4** developers to create a **React & Django** pet adoption site
- Designed the UI & backend services for user profiles, adoption listings & pet info pages

Clinic Management Application [↗](#):

- Worked on a team of **8** developers to build a **Java** clinic management application
- Spearheaded the development of database & controllers (**MVC Architecture**)