

Akshay Vakil

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EDUCATION

Toronto Metropolitan University (Formerly Ryerson University)

Toronto, ON

Bachelor of Science with Honors in Computer Science

April 2026

- **Relevant coursework:** Data Structures, Algorithms, Database Systems, Web Development, Intro to UNIX, C and C++, Operating Systems, Intro to Software Engineering, Discrete Mathematics

RELEVANT EXPERIENCE

Front End Engineer

November 2023 – February 2024

Carib Farm

Waterloo, ON

- Built responsive web app with **React**, **React Router**, and **HTML/Tailwind CSS**, increasing user engagement by **25%**
- Optimized performance via lazy loading, **React.memo**, and client-side rendering techniques, cutting load times by **40%** across all pages
- Created **Storybook** component library and UI documentation, boosting team velocity by **40%**
- Implemented **React Query** and custom hooks for data fetching, reducing code duplication by **30%**
- Enhanced SEO with meta tags and integrated **Google Analytics**, driving **30%** traffic growth
- Collaborated with UI/UX team to implement responsive designs using **Figma** specifications

PROJECTS

Space Simulator X

December 2023 – August 2024

Lua, Data Structures and Algorithms — ROBLOX Video Game

Game Link

- Developed and published a game with **5,000+ monthly users**, **10,000+ visits**, and generated **\$1,000+ USD**.
- Built a scalable codebase using **OOP principles** and managed player data with **Data Stores** for **10,000+ users**.
- Developed a **secure trading system** using **encapsulation** and **attributes** to track user inventory states, preventing data loss.
- Increased session times by **3-5 minutes**, placing the game in the **90th percentile** for engagement

RateMyClasses

December 2024

MongoDB, Express, React, Node, Postman, Docker — Fullstack Application

Application Link

- Developed a full-stack web app for course reviews at **Toronto Metropolitan University** using **MongoDB** to store users and courses.
- Created 2 data models and implemented **GET, POST, DELETE** backend functionality.
- Created and developed a **REST API**, with over **10+** routes, parsing **JSON** data to handle various user requests such as creating, reading, updating, and deleting course reviews.
- Utilized **Docker** to ensure consistent development and integration across platforms.
- Developed a responsive UI with **framer-motion** and **GSAP** for smooth animations and dynamic review displays.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, HTML/CSS, Lua, Java, C

Frameworks/DB: MongoDB, Oracle, PostgreSQL, ReactJS, Next.js, Bash, Express, REST, Node.js

Developer Tools: Git, GitHub, Docker, AWS, VS Code, Azure, Netlify, DevOps, Jira