

Rohan Mistry

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Education

University of Toronto

Bachelor of Science – Computer Science

Toronto, ON

September 2021 – April 2026 (expected)

Work Experience

Software Developer

University of Toronto – [IQBank](#)

September 2025 – Present

Toronto, ON

- Shipped anonymous posting and dark mode features in React and TypeScript, **lifting user engagement by 45%**
- Built a front-end test suite from scratch and integrated it into GitHub Actions, preventing UI regressions
- Refactored components, led collaborative code reviews, and prepared demos and notes for the **ARIA conference**

Software Engineer Intern

BlueCat

May 2024 – August 2025

Toronto, ON

- **Developed REST API endpoints in Java**, resolved back-end defects, **fixed PostgreSQL queries**, and wrote system tests using JUnit to enable real-time front-end updates and **reduce test failures by 15%**
- Contributed to a **TypeScript and React front-end overhaul**, implementing new functionality, optimizing components, and fixing critical defects to accelerate a major product release
- Wrote and maintained Jest test suites to **increase coverage by 30%** and ensure code quality was maintained
- Supported team onboarding for the new UI, performed **code reviews**, and provided guidance to ensure smooth transitions for new engineers

Software Developer

UNICEF

September 2023 – December 2023

Toronto, ON

- Developed an open-source web application using Python, JavaScript, and React to replace a proof-of-concept in an agile team for **over 100 UNICEF offices** worldwide to save licensing costs
- Implemented a cloud-based version control feature using Firebase and Flask to allow large teams to effectively manage multiple dashboards and propagate changes to clones

Data Science Course Development Assistant

University of Toronto – Department of Statistics

May 2023 – August 2023

Toronto, ON

- Built Python coding exercises leveraging Pandas and Statsmodels for **over 600 students**
- Coordinated collaborative efforts using Git and **created comprehensive unit tests** resulting in effective management of issues and code reviews

Projects

LSM-Tree Key-Value Store | C++, GoogleTest

- Engineered a high-performance database engine from scratch using an LSM-tree architecture, custom bloom filters, and buffer pool to optimize disk I/O and storage efficiency
- Implemented a CI/CD pipeline using GitHub Actions to run comprehensive GoogleTest suites on core API

CLI-fy – Spotify Statistics Visualizer | React, JavaScript, Next.js | [Project](#) [GitHub](#)

- Built a terminal-style Spotify statistics visualizer using Next.js and React that lists users' top artists and songs using the Spotify Web API
- Used OAuth to authenticate users and deployed using Vercel to have changes reflect easier

Technical Skills

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

Frameworks: React, Django, Next.js, Flask, Scikit-Learn, Pandas

Utilities: PostgreSQL, JUnit, Jest, Vitest, AWS, Selenium, Jenkins, SQLite, Firebase