

# Dhairya Khara

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## EDUCATION

### Honours Bachelor of Science in Computer Science

September 2021 – May 2025

*University of Toronto, St. George*

*Toronto, ON*

- Dean's List Scholar with cGPA of 3.94/4.0
- Enrolled in the Arts & Science Internship Program (Co-op)
- Notable Courses: Software Design, Systems Programming, Databases, Computer Organization, Machine Learning, Artificial Intelligence, Data Structures & Algorithms, Probability & Statistics, Law, Politics, Economics, Beethoven

## WORK EXPERIENCE

### Software Developer

May 2023 – Present

*BMO Finance Research and Trading Lab, Rotman School of Management*

- Leading a team to develop the new and completely web based Rotman Portfolio Manager 4.0 (RPM), a virtual trading and portfolio management platform which is going to be used by academic institutions all over the world.
- Effectively facilitated data acquisition for my team by leveraging strong communication skills to negotiate with both my supervisor and FactSet's sales department, ensuring timely access to the required REST APIs.
- Implemented Stripe integration for seamless payment processing on the platform.
- Ensured application quality through comprehensive testing, documentation, and strategic refactoring.
- Created and delegated tickets to team members to optimize productivity throughout the development process.

### Software Development Intern

May 2023 – August 2023

*Dash Hudson*

- Worked in an Agile based backend development team that is focused on extracting and preparing data from YouTube's and Meta's APIs for a social media management platform that is used by the world's leading brands.
- Built a feature to categorize metrics on Instagram based on types of posts such as photo, video, reel, carousel, etc.
- Assisted in developing a feature to allow users to compare their metrics on Facebook to their competitors.
- Streamlined troubleshooting by designing an admin feature that visually displays connection logs on the UI.
- Implemented Kafka consumers/producers for efficient data flow between the company's various micro services.
- Reduced my team's tech debt by enhancing monitors on Datadog and increased testing for legacy codebases.
- Served as a proactive Scrum Master, skillfully overseeing the Kanban board and leading daily stand-up meetings.

## OPEN SOURCE CONTRIBUTION

### MarkUs | *Ruby on Rails, React, jQuery, PostgreSQL*

**GitHub**

- Contributed to develop a web application used for the submission, grading and management of coding assignments for over 5000 students across University of Toronto, University of Waterloo and École Centrale de Nantes.
- Created multiple UI/UX elements such as drag and drop, emoji annotations and improved 404/403 error pages.
- Redesigned file submission by providing users with a checklist of required files and an option to rename their files.
- Improved the CI/CD pipeline by increasing the testing coverage of the RSpec and Jest suites by 5%.

## PROJECTS

### Intentful | *MongoDB, Express, React, Node.js*

**GitHub**

- A project created in collaboration with Voiceflow for the Technology Leadership Initiative program.
- A tool to help organizations visualize and analyze transcripts acquired from their call centers, live chats, etc.
- Allows users to build skeleton chatbots on Voiceflow's platform.

### The Seasons Collection: Spring | *Unreal Engine 4*

**Steam**

- A 3D story rich game which is published on Steam with over 31000 unique units activated.
- Integrated Discord Rich Presence using Discord's API and SDK.

## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++, Ruby, JavaScript, HTML, CSS, Assembly, Terraform

**Frameworks and Libraries:** Flask, React, Redux, Express, Node.js, Ruby on Rails, Jest, RSpec, Pytest

**Database Program:** PostgreSQL, Microsoft SQL Server, MySQL, MongoDB (with Mongoose)

**Developer Tools:** Git, GitHub, Docker, Datadog, Rancher, Apache Kafka, Google Cloud Platform, Heroku