Dhairya Khara

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EDUCATION

Honours Bachelor of Science in Computer Science

September 2021 – June 2026

University of Toronto, St. George

Toronto, ON

- Dean's List Scholar with cGPA of 3.90/4.0
- Minors in Economics and Political Science
- University of Toronto Scholar Award recipient
- Enrolled in the Arts & Science Internship Program (Co-op)
- Notable Courses: Software Design, Operating Systems, Databases, Computer Organization, Artificial Intelligence,
 Data Structures & Algorithms, Probability & Statistics, Video Game Design, Law, International Relations,
 Canadian Government, Beethoven, Microeconomic Theory, Advanced Calculus

Work Experience

Software Development Intern

May 2024 - May 2025

Jamieson Wellness Inc.

Toronto, ON

- Developed a company wide authentication system to secure web applications used by over 2500 employees.
- Built efficient data pipelines for seamless bidirectional data transfer between SAP, Informatica, and Kinaxis.
- Developed and implemented SAP RICEFs (Reports, Interfaces, Conversions, Enhancements, Forms) to support complex business processes spread across various departments such as Manufacturing, Logistics, Finance, etc.

Software Developer

September 2022 - May 2024

BMO Finance Research and Trading Lab, Rotman School of Management

Toronto, ON

- Discerned bottlenecks stemming from the lab's software usage and identified areas where software was not employed when needed by having discussions with various stakeholders such as students, faculty and admin staff.
- Led the development of Rotman Portfolio Manager 4.0, a virtual portfolio management platform, which solved the numerous issues of the previous versions that frequently demanded substantial labor-intensive fixes.
- Ensured application quality through comprehensive testing, documentation, and strategic refactoring.
- Effectively facilitated data acquisition for RPM's development by leveraging strong communication skills to negotiate with my supervisor and FactSet's sales team, ensuring timely access to the required REST APIs.
- Designed and implemented a new streamlined database schema in SQL Server, ensuring adherence to RPM's
 previous versions while simultaneously enhancing efficiency, reducing complexity and data redundancy.
- Integrated Stripe and e-RegisterNow for seamless payment processing on the platform.
- Created and delegated tickets to team members to optimize productivity throughout the development process.
- Developed a scoring portal and various performance evaluation tools to ensure smooth operations of the competitions hosted by the lab such as the Rotman International Trading Competition (RITC).
- Conducted Python workshops to familiarize 150+ MBA students with syntax, data structures and APIs.
- Handled all correspondence through the lab's ServiceNow platform.
- Assisted students in navigating various programs such as Bloomberg Terminal, Capital IQ and WRDS.
- Aggregated financial data by using programs such as WRDS, Capital IQ, and Bloomberg Terminal.
- Helped faculty members in extracting historical, real-time and fundamental stock data.

Software Development Intern

May 2023 – August 2023

Dash Hudson

Remote

- 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.
- Assisted in securing Estée Lauder as a client by leading the development of a key feature which would enable the client to categorize metrics of their Instagram accounts based on types of posts such as photos, videos, carousels.
- Streamlined troubleshooting for the customer success department by designing an admin feature that presents connection logs on the UI, allowing them to allocate more time to solutions rather than issue identification.
- 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.

Computer Science Intern

University of Toronto, Sidney Smith Commons

Toronto, ON

- Provided peer support and academic guidance to over 700 current and incoming Computer Science students.
- Promoted educational and informative content that resulted in a 40% increase of followers on Instagram.

Instructor

October 2021 – December 2022

May 2022 – August 2022

Mathstronauts Remote

- Taught web and game development to over 50 high school students in underrepresented and at-risk communities.
- Developed assignments, slides and quizzes to make student learning as interactive as possible in an online setting.

OPEN SOURCE CONTRIBUTION

MarkUs | React, Ruby on Rails, RSpec

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.
- \bullet 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, an AI chatbot company, for the Technology Leadership Initiative program. The challenge was to build software that would align with Voiceflow's business interests.
- Analyzed the chatbot market and identified the absence of viable solutions for retail companies to leverage their existing transcripts from live chats and call centers to train new artificial intelligence chatbots.
- To solve the aforementioned issue, led the development of a web based solution to help such organizations visualize their transcripts in a bubble chart and build chatbots directly on Voiceflow's platform from our tool.

The Seasons Collection: Spring | Unreal Engine 4, C++

Steam

- Integrated Discord Rich Presence using Discord's API and SDK.
- Developed and published The Seasons Collection: Spring on Steam which has over 35000 unique units activated.
- Despite the business barely breaking even, gained valuable insights into the consequences of over-prioritizing development as this resulted in a shortfall in marketing and a lack of research regarding product-market fit.

Expense Tracker | MongoDB, Node.js, React

Website GitHub

- Developed a full-stack web application to help users keep track of their expenses.
- Implemented Google OAuth for authentication.

Weather Forecaster | Node.js, React, REST APIs

Website GitHub

- Developed a full-stack web application that shows the weather forecast for a searched location.
- Uses REST APIs of Mapbox and OpenWeather to receive the weather forecast data in JSON.

SKILLS

Programming Languages: Python, Java, C/C++, Ruby, JavaScript, ABAP, HTML, CSS, SQL, Assembly, Terraform

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

DBMS and ERP: SAP, PostgreSQL, Microsoft SQL Server, MySQL, MongoDB, DynamoDB

Cloud Platforms: Google Cloud Platform, Amazon Web Services, Heroku Developer Tools: Git, GitHub, Docker, Datadog, Rancher, Apace Kafka

Microsoft Office: Excel, Word, PowerPoint, Publisher, Access

Adobe Creative Cloud: PhotoShop, Illustrator, Premiere Pro, Audition, After Effects