

Rosie Khurmi

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TECHNICAL SKILLS

Languages/Frameworks : Java, Python (Matplotlib, Numpy, Selenium, PyGame, SciPy), C++/C#, Javascript, HTML, CSS, Unity, FastAPI, ReactJS, Angular, Jakarta EE

Skills: Github, Jupyter Notebook, MongoDB, MySQL, PostgreSQL, Cloud Operations (Google Kubernetes Engine), Figma

Google Certified Associate Cloud Engineer (August 2024)

WORK EXPERIENCE

Bank of Montreal

Toronto, ON

Software Development (Co-Op)

January 2025 - August 2025

- Managed and optimized BMO's customer-facing IOS, Android and desktop applications, enhancing the experience of over 3 million users, as part of the **Platform Continuous Integration** Team.
- Resolved multiple Jira tickets for **bug fixes** and **release management** within biweekly sprints, collaborating with backend teams, QA, and product managers to deliver timely updates and ensure smooth deployments.
- Developed and integrated reusable components and UI features for multiple teams using **Angular** and **Ionic** and writing unit tests using **Jest** with mocks and spies for robust unit testing.

Tech Mahindra

Toronto, ON

Junior Software Engineer (Co-Op)

May 2024 - August 2024

- Assisted the delivery operations team in helping clients migrate to **Google Cloud Platform** to reduce operational costs by 10%.
- Collaborated with the research and development team to build a Vertical LLM for optimizing financial investing strategies, utilizing the **Merlinite LLM model**, **MongoDB**, and **Flask**.
- Developed and implemented data pipelines for ingesting and processing financial data, alongside validation frameworks to maintain data quality and ensure model accuracy.

Software Engineering & Education Research Lab

Oshawa, ON

Undergraduate Research Assistant

September 2024 - Present

- Worked under a graduate student to develop a digital version of the hybrid game, **Run Llama Run**, designed to teach **computational thinking** skills to K-5 students through interactive gameplay.
- Used **Unity-2D** for application development and prepared detailed documentation to ensure the project aligns with research and technical standards.
- The next step involves contributing to a section of a **formal research paper** that examines the impact of educational games on student learning.

Ontario Tech University

Oshawa, ON

Teaching Assistant

September 2024 - Present

- Assisted the professor in delivering the Programming Workshop 1 course, where students learn the fundamentals of **C++**.
- Lead weekly **labs** sessions of 20 students where they solve problems using code to help them understand the week's course material and invigilating exams.

EDUCATION & CERTIFICATIONS

Ontario Tech University - BSc Computer Science

September 2022 - Present

- Data Science specialization with a mathematics minor
- Presidents List: 2022 - 2024

PROJECTS

Hackhive Hackathon First Place Winner

February 2023

- PantryPal, proposed giving AI generated recipes using a list of ingredients given by a user.
- The solution used Natural Language Processing and was hosted using Microsoft Azure services.
- The solution included use case and architecture diagrams along with business analytic tools.

Spam Detector

- Developed a software application that allows users to enter their SMS messages to determine whether it is spam or ham.
- Utilised a TF IDF vectorizer and the Naive Bayes algorithm for message classification, currently evaluating advanced machine learning algorithms to enhance functionality and accuracy.
- The software stored training data in a MongoDB database, which was loaded into the model and accessed through a FastAPI backend with a ReactJS frontend.