

Rosie Khurmi

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TECHNICAL SKILLS

Languages/Frameworks : Java, Python (Matplotlib, Numpy, Selenium, PyGame, SciPy), C++/C#, Javascript, Unity, FastAPI, Flask, ReactJS, ExpressJS

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

Google Certified Associate Cloud Engineer (August 2024)

WORK EXPERIENCE

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 15%.
- Collaborated with a team to develop a **Vertical LLM** that determines optimal financial strategies, which encompassed data collection, processing, and validation methods.
- Ensured **quality software** by adhering to code writing standards and creating comprehensive documentation, reports, and well-commented code for clarity and scalability.

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.

Ontario Tech Racing

Oshawa, ON

Software Team Member

May 2024 - April 2025

- Co-lead **backend** development for the team's **CFD simulator interface**, with a focus on building the backend **architecture**, designing the **database** structure, and handling **deployment**.
- Coordinating with the **frontend** team to allow seamless communication between the user interface and the backend system.
- Reporting to the Software Team Lead to ensure a **streamlined development process** while adhering to project management guidelines.

EDUCATION & CERTIFICATIONS

Ontario Tech University - BSc Computer Science

September 2022 - Present

PROJECTS

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.

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.