

# Vishwas Puri

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## EDUCATION

### University of Toronto

Sep. 2023 – Present

*Bachelor of Applied Sciences in Computer Engineering + PEY (Co-op)*

*Toronto, ON*

- Elected as the First Year Chair at the Engineering Society representing all the 1200+ Engineering students
- Mentored teams at NewHacks and MakeUofT (university-level hackathons) and provided teams with guidance during ideation, prototyping, and technical software challenges

## EXPERIENCE

### Software Tech Lead

May 2024 – Aug. 2024

*Royal Bank of Canada*

*Toronto, ON*

- Directed a software team to build an automated financial plan verification and notification service for RBC's MyAdvisor tool, reducing manual workloads for managers and advisors
- Developed a Spring Boot + Java backend service integrated with Oracle SQL for automated financial data processing, and built an Angular dashboard for user-friendly insights
- Utilized Git for version control, CI/CD for streamlined deployment, and Agile methodologies to manage the software development lifecycle (SDLC) using tools like Jira and Confluence
- Delivered 3 production releases in 8 weeks, reducing manual effort and enhancing client service

### Innovation Software Developer

Jul. 2023 – Aug. 2023

*Royal Bank of Canada*

*Toronto, ON*

- Collaborated with RBC's digital team of developers and designers to enhance internal design interface guidelines
- Created Web Component APIs for Angular and React to expand RBC's UI Library to improve consistency
- Implemented rigorous testing protocols with Jest and Cypress, ensured design alignment with Figma, and used Git for version control to deliver high-quality components
- Released 4 fully functional web components within 5 weeks, enhancing usability and accessibility, streamlining development workflows, and saving time and resources

### Tech Lead

May 2022 – Aug. 2022

*Brampton Focus*

*Remote*

- Led the development of a cross-platform web app for "People Against Littering" to track and count litter collected by users and communities, promoting cleaner public spaces
- Built the app using Node.js, React, a real-time database, and live location tracking, delivering an intuitive platform to generate analytics and drive community participation in litter-tracking events
- Launched the app in collaboration with city councillors, local businesses, and the Mayor, motivating citizens to collect thousands of litter pieces within hours

## PROJECTS

### FridgeGuru | Python, Taipy, NumPy, Matplotlib

- Collaborated with 4 developers to build an AI-powered tool in 36 hours, transforming fridge contents into personalized recipe suggestions using YOLOv8 for object detection, custom-trained on thousands of food classification models, and EleutherAI GPT-Neo with research-driven prompts for accurate recipe generation
- Showcased the user-friendly app with a Taipy front-end at Hack the North, providing 3 personalized recipes based on available ingredients and offering a practical solution to the "what to eat" dilemma

### Waste Security | Python, Dart, Flutter, OpenCV, TCP Sockets

- Repurposed old devices into a robust security system by leveraging their storage as local databases and developing an AI-powered motion detection system with OpenCV for accurate tracking and face identification
- Developed a cross-platform solution in under 12 hours by 2 developers using Python and Flutter, earning second place at the Hack Peel Hackathon and demonstrating the effective use of repurposed technology

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, Oracle SQL, JavaScript, TypeScript, HTML/CSS, MATLAB

**Frameworks:** Angular, React, Node.js, Spring Boot, Flutter, Flask, JUnit, Mockito, Jest, FastAPI

**Developer Tools:** Git, SSH, Visual Studio, IntelliJ, Jira, Confluence, Firebase, GCP, Figma (UI/UX)

**Libraries:** OpenCV, Pandas, NumPy, Matplotlib, Mediapipe, TensorFlow