

# Vishwas Puri

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## EDUCATION

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### University of Toronto (St. George)

Expected Graduation, April 2027

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

*Toronto, ON*

- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Digital Logic Circuit Design, Combinational Logic Optimization, FPGA Design, Linear Algebra, Time and Space Complexity Analysis
- Elected as **Second Year Representative** for 250+ Electrical and Computer Engineering students

## TECHNICAL SKILLS

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

**Frameworks:** Web (Angular, React, Node.js), Testing (JUnit, Mockito, Jest), REST (Spring Boot, FastAPI, Flask)

**Developer Tools:** Git, Firebase, GCP, Maven, Gradle, Jira, Confluence, Figma (UI/UX), Postman

**Libraries:** Machine Learning (Pytorch, TensorFlow, Mediapipe, OpenCV), Data Mining (Pandas, NumPy, Matplotlib)

## EXPERIENCE

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### Royal Bank of Canada

May 2024 – August 2024

*Lead Software Engineering Intern*

*Toronto, ON*

- Directed an Agile team of **5 developers** to build and manage the Software Development Life Cycle of a back-end **microservice** using Java and Spring Boot, automating daily batch validation for **hundreds of financial plans**
- Developed a business rule engine, integrated with Oracle SQL for data management, powering an Angular dashboard used by **200+ financial advisors** and managers daily
- Delivered **3 production releases in 8 weeks** to streamline financial plan verification processes

### Royal Bank of Canada

July 2023 – August 2023

*Software Engineering Intern*

*Toronto, ON*

- Collaborated with RBC's digital team to resolve UI inconsistencies by developing **maintainable and reusable web component APIs** for Angular and React, ensuring standardized components across applications
- Performed testing protocols with Jest and Cypress, **achieving over 80% code coverage**, and ensured design alignment via Figma to deliver high-quality components
- Released **4 functional components in 5 weeks**, enhancing usability, accessibility, and developer productivity

### Brampton Focus

May 2022 – August 2022

*Lead Software Developer*

*Remote*

- Led a team of **4 developers** to create a cross-platform web app for tracking and reporting litter collection
- Utilized React, Node.js, AWS Relational Database Service with PostgreSQL, and integrated **live location tracking** to enable real-time analytics for **400+ concurrent users**
- Launched the app in collaboration with local businesses and municipalities, facilitating **real-time tracking** of thousands of pieces of litter and driving increased cleanup efforts for enhanced public cleanliness

## PROJECTS

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### FridgeGuru | *Python, Taipy, Numpy, Matplotlib*

- Collaborated with **4 developers** to build an AI-powered tool in **36 hours** at Hack the North, transforming fridge contents into **3 personalized recipe suggestions** based on available ingredients
- Leveraged YOLOv8 for object detection, **custom-trained** on thousands of food classification models and utilized EleutherAI GPT-Neo with research-driven prompts for accurate recipe generation

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

- **Repurposed old devices** into a robust **security system** by leveraging their storage as local databases and developed an AI-powered **motion detection system** with OpenCV for accurate tracking and face identification
- Delivered a cross-platform solution in under **12 hours with 2 developers** using Python and Flutter

## ACHIEVEMENTS

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Professional Engineers Ontario Scholarship

October 2023

Walmart Canada Scholarship

July 2023

Edward S. Rogers Sr. Admission Scholarship

May 2023

2nd Place at Hack Peel Hackathon (Waste Security)

December 2022