Vishwas Puri

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Education

University of Toronto Expected Graduation, Apr. 2027

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

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

Technical Skills

Languages: Python, Java, C/C++, JavaScript, TypeScript, HTML/CSS, SQL, NoSQL, MATLAB
Frameworks: Angular, React, Node.js, Spring Boot, Flutter, Flask, JUnit, Mockito, Jest, FastAPI
Developer Tools: Git, SSH, Firebase, GCP, Maven, Gradle, IntelliJ, Visual Studio, Jira, Confluence, Figma (UI/UX)
Libraries: Machine Learning (TensorFlow, Mediapipe, OpenCV), Data Mining (Pandas, NumPy), Matplotlib

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, streamlining the manual review of financial plans submitted by advisors, reducing human error, and improving overall efficiency.
- Developed a back-end microservice using Spring Boot and Java for daily batch validation of hundreds of submitted plans based on business rules, integrated Oracle SQL for data management, and created an Angular dashboard to display financial plan summaries and identify validation exceptions.
- Delivered 3 production releases in 8 weeks, automating the financial plan verification process by reducing manual workloads, improving efficiency, and elevating RBC's client service.

Innovation Software Developer Jul. 2023 – Aug. 2023

Royal Bank of Canada *Toronto, ON*

- Collaborated with RBC's digital team to resolve user interface inconsistencies by developing web component APIs for Angular and React, ensuring uniform and standardized components across applications.
- Implemented agile methodologies using Jira and Confluence to manage the Software Development Life Cycle (SDLC), incorporating rigorous testing protocols with Jest and Cypress, achieving over 80% code coverage, ensuring design alignment via Figma, and utilizing Git for version control to deliver high-quality components.
- Released 4 functional web components in 5 weeks, enhancing usability, accessibility, and developer productivity.

Tech Lead May 2022 – Aug. 2022

Brampton Focus *Remote*

- Partnered with a non-profit organization named People Against Littering to develop a cross-platform web app that tracked and reported daily litter collection by over 400 users, addressing the need for cleaner public spaces.
- Led a development team to create a user-friendly web app using React, Node.js, and AWS Relational Database Service with PostgreSQL, integrating live location tracking to generate real-time analytics accurately.
- Launched the app with city councillors, local businesses, and the Mayor, enabling real-time tracking of thousands of litter pieces, facilitating increased cleanups by municipalities and communities to improve public cleanliness.

Projects

FridgeGuru | *Python, Taipy, NumPy, Matplotlib* Sep. 2023

- 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* Dec. 2022

- 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.