Vishwas Puri

613-276-1222 | vishwaspuriofficial@gmail.com | linkedin.com/vishwaspuri | vishwaspuri.com | github.com/vishwaspuriofficial

Education

University of Toronto Sep 2023 - Apr 2027

Bachelor of Applied Science in Computer Engineering *Toronto, ON*

- Available for **4-16 month internships from May 2026**, aiming to convert to full-time graduate roles
- **Minors**: Artificial Intelligence and Business
- **Coursework**: Data Structures and Algorithms (C++), Operating Systems (C), Machine Learning, Deep Learning

Experience

Canada Life May 2025 – Aug 2025

Software Engineering Intern *Toronto, ON*

- Collaborated with Sponsor Billing and Finance team to develop a group insurance billing platform using **C#**, **ASP.NET Core**, and **Microsoft SQL Server**, automating invoicing for admins cutting manual work by **95%**
- Built a **React** and **Vite.js** dashboard for real-time invoice generation, **transforming days of manual work into seconds** with responsive UI/UX integrated with **GitLab CI/CD pipelines** for automated deployments
- Redeveloped **VBA** onboarding system in Microsoft Access using optimized **SQL Server** queries, cutting high-priority break/fix incidents by **90%** for developers and boosting onboarding efficiency for business users

Royal Bank of Canada May 2024 – Aug 2024

Lead Software Engineering Intern *Toronto, ON*

- **Led an agile team of 5 developers** to design and streamline the financial plan verification process for Advisors, collaborating with business stakeholders to build a custom business rules engine
- Owned project, delivering a scalable, **Java-based Spring Boot microservice** automating daily batch validation for **150 financial plans**, ensuring quality through code reviews, achieving **3 production releases in 8 weeks**
- Engineered an **Oracle SQL** data pipeline with seamless external **API integrations**, powering an **Angular** dashboard used daily by over **200 financial advisors** across Canada, reducing manual validation time by **75%**

Royal Bank of Canada Jul 2023 – Aug 2023

Software Engineering Intern *Toronto, ON*

- Collaborated with RBC's digital team to enhance UI consistency, developing **4 maintainable Angular and React web components** for organization-wide standardization
- Performed unit and end-to-end testing with **Jest** and **Cypress**, achieving **over 80% code coverage** aligned with Figma designs for high-quality components
- Enhanced customer usability and accessibility boosting developer productivity by **over 30%** with UI components adopted by around **1,000 engineers** across development teams

Projects

Caption Tune – AI-Powered Music and Caption Generation | *React, Node.js, TypeScript, Redis, Google Cloud*

- Developed a **React** SPA with **Node.js** API and Gemini 2.0 Flash AI model on **Google Cloud Platform**, enabling image-to-music and caption matching, **achieving 95% model accuracy**
- Implemented token-based rate limiting with K6/Artillery, ensuring scalability for **over 150 users in 1 week**
- Deployed serverless **Vercel** app with **Redis Upstash**, boosting API performance for **over 250 weekly visits**

SkinAI Classifier – Deep Learning Skin Lesion Classification | *Python, PyTorch, Scikit-learn, Streamlit*

- Built and trained a ResNet-18 CNN using transfer learning on 10,000+ HAM10000 dataset images, **achieving 81.01% validation accuracy and 84.9% test accuracy** for 7-class classification
- Optimized **data preprocessing** with augmentation to fix class imbalance, boosting model generalization by **15%**
- Deployed an interactive Streamlit app for real-time AI skin-lesion classification, enabling predictions in **less than 5 seconds** with preprocessing for medical professionals, supported by research, reports and presentation

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, SQL, C#, C, C++, HTML, CSS
Frameworks: React, Angular, Node.js, Spring Boot, ASP.NET Core, Jest
Developer Tools: Git, GitHub, Linux/Unix, SSH, Google Cloud Platform, Postman, Figma, Jira, Confluence
Libraries: PyTorch, Scikit-learn, OpenCV, TensorFlow, Hugging Face, Pandas, NumPy, Matplotlib