# Vishwas Puri

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## 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
- **Relevant Coursework**: Data Structures and Algorithms, Operating Systems, 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 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#, HTML, CSS, C, C++
**Frameworks**: React, Angular, Node.js, Spring Boot, ASP.NET Core, Jest
**Developer Tools**: Git, GitHub, Linux/Unix, Docker, SSH, Google Cloud Platform, Postman, Figma, Jira, Confluence
**Libraries**: PyTorch, Scikit-learn, OpenCV, TensorFlow, Hugging Face, Pandas, NumPy, Matplotlib