

Vishwas Puri

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TECHNICAL SKILLS

Languages: Python, C#, Java, JavaScript, TypeScript, C, C++, SQL, NoSQL, HTML, CSS
Frameworks: React, Angular, Vite.js, Node.js, Express.js, ASP.NET Core, Spring Boot, Jest, Cypress, JUnit
Developer Tools: Git, GitHub, GitLab, Google Colab, Streamlit, Microsoft Access, SQL Server Management Studio, Oracle SQL Developer, pgAdmin, Firebase, MongoDB, Google Cloud, Jira, Confluence, Figma, Maven, Postman
Libraries: PyTorch, TensorFlow, Scikit-learn, Hugging Face, OpenCV, Pandas, NumPy, Matplotlib

EXPERIENCE

- Canada Life** May 2025 – August 2025
Software Engineering Intern Toronto, ON
- Collaborated with Sponsor Billing and Finance team to create a **group insurance billing platform** using C#, ASP.NET Core, and Microsoft SQL Server, managing employee benefits for enterprise clients
 - Built a React and Vite.js dashboard for **real-time benefits visualization** 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 – August 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 **hundreds of 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 50%**
- Royal Bank of Canada** July 2023 – August 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 **1,000+ engineers** across development teams

PROJECTS

- 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 78.9% validation accuracy and 75.2% F1-score** for 7-class classification
 - Deployed an **interactive Streamlit web app** for real-time AI dermatology classification, enabling medical professionals to access instant predictions with preprocessing, supported by research, reports and presentations
- 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% accuracy**
 - Implemented token-based rate limiting with K6/Artillery testing ensuring **high concurrency scalability**
 - Deployed serverless Vercel app with Redis Upstash KV store, enhancing **low-latency API performance**

EDUCATION

- University of Toronto (St. George)** Expected Graduation April 2027
Bachelor of Applied Science in Computer Engineering + PEY (Co-op) Toronto, ON
- Minors:** Artificial Intelligence and Business
 - Relevant Coursework:** Object-Oriented Programming, Data Structures and Algorithms, Operating Systems, Complexity Analysis, Machine Learning (Deep Learning, Neural Networks, CNNs, RNNs, GANs, Transformers)