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# and ASP.NET Core with Microsoft SQL Server to manage employee benefits for **multiple client businesses**
- Developed React and Vite.js dashboard for **rapid benefit visualization**, enabling administrators to monitor employee benefits, supported by GitLab for version control and CI/CD pipelines
- Redeveloped VBA onboarding system in Microsoft Access with optimized SQL Server queries, resolving high-priority break/fix issues, achieving **90% incident ticket reduction**

Royal Bank of Canada May 2024 – August 2024
Lead Software Engineering Intern *Toronto, ON*

- Led agile team of **five developers** to design and streamline the financial plan verification process, collaborating with business stakeholders to build a **custom business rule engine**
- Owned project, delivering a scalable Spring Boot microservice that automated daily batch validation for **hundreds of financial plans**, achieving **three production releases** in eight weeks
- Engineered a data pipeline using Oracle SQL with integrated external APIs, powering an Angular dashboard used daily by **200+ financial advisors** across Canada

Royal Bank of Canada July 2023 – August 2023
Software Engineering Intern *Toronto, ON*

- Collaborated with RBC's digital team to resolve UI inconsistencies, developing **four maintainable Angular and React web components** for application-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, improving developer productivity by **over 30%** with components adopted daily by **1,000+ engineers**

Projects

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

- Created deep learning model for **10,000+ HAM10000 dataset images** targeting 7-class skin lesion classification
- Trained ResNet-18 using transfer learning, achieving **78.9% validation accuracy and 75.2% F1 score**
- Launched Streamlit-based live demo for real-time skin lesion classification, enabling **instant AI-driven predictions**

Caption Tune – AI-Powered Music and Caption Platform | *React.js, Vite.js, TypeScript, Node.js, Redis*

- Built Node.js API with Gemini 2.0 Flash AI model on Google Cloud Platform, achieving **95% model accuracy**
- Secured front-end with K6 and Artillery penetration testing, implementing **efficient token rate limiting**
- Deployed on Vercel serverless with Redis Upstash KV store, enhancing **multi-request scalability**

Education

University of Toronto (St. George) Expected Graduation, April 2027
Bachelor of Applied Sciences 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, Transformers)