

Pranav Vishal

📞 519-807-9596 | ✉️ pvishal@uwaterloo.ca | 🌐 www.pranavvishal.ca | 📄 github.com/pranavishal

EDUCATION

University of Waterloo

Waterloo, ON, Canada

Bachelor of Computer Science

April 2026

- Courses: Designing Functional Programs, Elementary Algorithm Design and Data Abstraction, Object-Oriented Software Development (C++), Linear Algebra, Probability, Statistics

Wilfrid Laurier University

Waterloo, ON, Canada

Bachelor of Business Administration

April 2026

TECHNICAL SKILLS

Languages: C/C++/C#, Java, Python, Dart, JavaScript, HTML, CSS, Bash, SQL

Frameworks/Technologies: ReactJS, NodeJS, ExpressJS, Bootstrap, Rest APIs, PyTorch, Tensorflow, OpenGL, Unity, Unreal Engine, SQL, Git, CUDA, GraphQL, OpenGL

RELEVANT EXPERIENCE

Lincoln Electric

September 2024 – December 2024

Software Engineering Intern

Hamilton, ON, Canada

- Optimized MongoDB data retrieval by building efficient C#/.NET **APIs** for complex filtering, including regex and range conditions, resulting in 50% faster processing

WAT.ai

September 2024 – December 2024

Incoming Machine Learning Engineer

Waterloo, ON, Canada

- Incoming Machine Learning Engineer on the Pitch.AI team

Partho Technologies

May 2024 – August 2024

Software Engineering Co-op

Mississauga, ON, Canada

- Developed and deployed a machine learning model using **TensorFlow** and **Keras** for real-time prediction of customer behavior patterns, improving lead conversion rates by 15%
- Integrated natural language processing techniques using **SpaCy** and Transformers to enhance chatbot response accuracy, increasing customer satisfaction scores by 23%

Lincoln Electric

January 2024 – April 2024

Software Engineering Intern

Cleveland, OH, USA

- Designed and implemented a multi-threaded event processing system in **C#**, reducing application crashes by 11%
- Established a **MongoDB** client in within a dedicated thread for efficient database communication to enhance reliability in scenarios of database connectivity issues
- Redesigned and refactored a centralized **logging solution** from a legacy system to a modern infrastructure, resulting in a 25% improvement in log processing time

UW Blueprint

January 2024 – August 2024

Technical Lead

Waterloo, ON, Canada

- Led the development of an Interview Dashboard using **ReactJS**, integrating **PostgreSQL** and Google Calendar APIs, enhancing scheduling efficiency by 20%
- Developed a delegation algorithm in **TypeScript** to assign reviewers to incoming applications, improving the total recruitment process by over 30%

ATS Automation

January 2023 – April 2023

Software Developer Intern

Cambridge, ON, Canada

- Improved **Illuminate Connect** response time by 18% through implementing a timeout system in **C++** to prevent log consoles being jammed
- Utilized **C++** exception handling to catch unreadable **SQL** error codes and display user-friendly error messages

TECHNICAL PROJECTS

3D Scene Virtual Camera 📹 | C++/OpenGL

July 2022 – September 2022

- Programmed a functioning 3D camera using **C++**, **OpenGL**, and **GLEW**
- Used Object Oriented principles such as inheritance to render multiple instances of shapes on to the scene
- Developed vertex, fragment, and geometric shaders