

Rishi Umaria

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Education

Conestoga College

Bachelors of Computer Science, Honors

Waterloo, ON.

Sept. 2023 – Aug. 2027 (Expected)

Coursework: Data Structures & Algorithms, Software Design Techniques, Computer Networks, System Analysis & Design, Operating Systems, Mobile & Networked Systems, Database Systems, UX Evaluation & Testing

Technical Skills

Programming Languages:	Python, C/C++, Java, JavaScript, Dart
Web/Mobile:	React.js, TypeScript, Flutter, Streamlit
Databases:	MySQL, SQLite, MongoDB
Frameworks/Libraries:	Flask, PyTorch, Keras, OpenCV, MediaPipe, Pandas, NumPy, Scikit-learn
Tools:	Git/GitHub, JupyterNotebook, Docker, Doxygen, Azure, JMeter, Wireshark

Experience

Freelance Software Developer, Dutch Hollow Market – Remote, NY, USA

May 2024 – July 2024

- Store lacked a modern digital presence and failed to engage online customers. Tasked with redesigning and developing their web platforms. Architected and launched an integrated website using UX principles with modern UI and POS-linked inventory tracking for both gas and liquor divisions. Resulted in a **40%** increase in online user engagement and seamless product discovery.
- Sought to attract new customers and improve usability. Tasked with enhancing visibility and accessibility. Applied responsive design, integrated Google Business APIs, and simplified product navigation. Resulted in a more discoverable and functional platform for digital consumers resulting in **35%** reduced bounce rate.

Food Service Associate / Barista, Tim Hortons & Fresh Food Company – Waterloo, ON

Oct 2023 – Present

- Trained and mentored 5+ new employees each hiring season, emphasizing process efficiency, system accuracy, and teamwork—demonstrating leadership and communication skills.
- Served 800+ customers daily across two outlets, ensuring fast, accurate service during peak hours.

Projects

DriveWise – Smartphone-Based Driving Behavior Analytics App

github.com/R-umaria/Group24F24

- Led development of a Flutter-based smartphone telematics app with **90%+** accuracy in detecting risky driving behaviors using native sensor fusion—replacing **\$110M** worth of hardware with software—while managing a 4-member Agile team, delivering full SDLC documentation, and shipping MVPs in 3-week SCRUM sprints.

spotSpot – Real-Time Acne Detection Using CNN

github.com/R-umaria/spotSpot

- Developed a Streamlit-based real-time acne detection tool using OpenCV and a fine-tuned ShuffleNet CNN in PyTorch—achieved **87%** accuracy, built a full-stack ML pipeline in 24 hours at CtrlHackDel, and won 3rd place out of 50+ teams with a mobile-first solution offering live photo diagnosis and OTC treatment suggestions.

UDP/TCP-Based Command & Control Interface for Robot

github.com/R-umaria/CSCN72050-Group2

- Developed a full-stack web-based robot control system using C++ and RESTful GUI, enabling real-time UDP communication with protocol-compliant packet parsing, state-based commands, and reliable telemetry.

Activities & Leadership

- **Hackathon Developer (8+ Events, 3 Wins)** — Built and shipped rapid MVPs in 24–48 hour sprints at national and international hackathons including like NASA Space Apps 2024, DeltaHacks XI, HackThe6ix 2025, and Ctrl Hack Del; recognized for technical innovation, execution, and impact among 50+ teams.
- **Hackathon Volunteer & Mentor** — Supported logistics, onboarding, and technical mentorship at various university hackathons; guided participants on Git, APIs, debugging, and design workflows to foster collaborative problem solving and successful project delivery.