Hoang Vu

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EDUCATION

York University   Sep 2024 – Apr 2026
Honours Bachelor of Science in Computer Science   *Toronto, ON*

Sheridan College   Sep 2020 – Dec 2023
Advanced Diploma in Software Development and Network Engineering *Oakville, ON*

EXPERIENCE

Software Developer   May 2023 – Aug 2023
SIRT Centre   *Toronto, ON*

- Built multiplayer menu system in C++ with character selection, profile creation/persistence, and session initialization flow
- Identified and resolved C++ bugs, enhancing system stability and reducing crash rates by **20%**

AR/MR Software Developer   May 2022 – Dec 2022
CloudDX   *Oakville, ON*

- Developed voice commands for HoloLens2, showcased at **ANA Avatar XPRIZE 2022** with **50+** successful demonstrations
- Optimized Arduino-to-HoloLens communication by refactoring C++/C# sensor data processing pipeline, reducing latency by **30%** for real-time vital sign display
- Designed and implemented user-friendly AR interactive features, improving usability and engagement for immersive experiences

VR Software Developer   Jan 2022 – Apr 2022
Medtech Canada, Unity Health Toronto   *Oakville, ON*

- Migrated Unity VR clinic simulation from deprecated XR Rig to XR Origin architecture resulting in **40%** faster scene load times
- Rapidly resolved a critical rendering bug within **48 hours**, restoring accurate motion tracking and eliminating all hand-tracking glitches

PROJECTS

Monsieur Bonbon | *C#, ASP.Net, .Net Core 3.0, MySQL, Bootstrap, jQuery*

- Developed a full-stack e-commerce platform using **RESTful API**, supporting **500+** SKUs across 12 product categories
- Implemented role-based authentication, reducing admin workload by **30%** and improving security
- Optimized database queries by **25%**, enabling faster product searches and order processing

VURooms | *React.js, Node.js, Express.js, MongoDB, Stripe API*

- Developed a full-stack hotel booking platform with **React** frontend and **Express/Node** backend, handling dynamic searches and bookings end-to-end
- Integrated **Stripe API** for secure payments and verified **100+** simulated transactions during testing
- Added analytics tracking for bookings, providing insights into booking trends and increasing user engagement by **30%**

TECHNICAL SKILLS

Languages: C#, C++, Java, Python, JavaScript
Stacks: Spring, .Net, MERN
Database: MySQL, MongoDB
Tools: Git, VS Code, Visual Studio, Eclipse