

# Ramiyan Gangatharan

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## Education

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Ontario Tech University – Oshawa, ON  
Sept 2025 – Apr 2027

*BSc. (Hons) Computer Science, Advanced Entry*

- Clubs: OTU CS Club, The Tamil Student Association

Durham College – Oshawa, ON  
Sept 2022 – Apr 2025 | GPA: 3.84/5.0 | Honour Roll (2022–2025)

*Adv. Diploma, Computer Programming & Analysis*

- Competed in inaugural Durham College Hackathon (2025)

## Experience

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Durham College MRC Studio, Oshawa, ON  
Apr 2025 – May 2025

Research Assistant: Software Designer/Developer Intern

- Built a Unity-based AI assistant prototype integrating local LLMs across XR, mobile, and desktop.
- Linked Meta STT/TTS with a FastAPI REST backend for real-time speech interaction.
- Prototyped conversational NPCs and intelligent agents for immersive environments.
- Developed core systems for a Souls-like 3D Unity 6 game (URP), incl. physics, combat, animation.

Tim Hortons, Various Locations  
Nov 2021 – Present

Shift Supervisor / Counter Staff

- Supervised up to 12 staff, managing operations, safety, and daily productivity.
- Streamlined workflows to reduce waste and improve profitability.

## Selected Projects

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VR AI Assistant, AICore – 2025

Full Stack Developer, Durham College

- Built a Unity-based VR prototype enabling real-time AI conversations through STT, NLP, and TTS.
- Developed and optimized STT - LLM - TTS pipeline using C#, HTTP networking, and a Meta Quest 2.
- Collaborated in a research environment, rapidly prototyping with unfamiliar tools and documenting tech workflows.
- Gained hands-on experience integrating natural language systems into environments under NDA constraints.

Urban Fracture – 2025

Full Stack Developer, Independent

- Developed an FPS game with UE6 inspired by tactical shooters, featuring sprinting, crouching, leaning, & jumping
- Implemented AI agents with proximity-based perception, NavMesh pathfinding, and combat states.
- Built modular systems (weapons, health, VFX, audio, UI) in C# with GitHub + LFS for version control.
- Delivered within two months, documenting dev logs, and overcoming challenges in AI, lighting, & asset management.

Student Advisor Ticketing System (SATS) – 2024/25

Full Stack Developer, Durham College

- Led development of an internal ticketing system for student advising, replacing inefficient email workflows.
- Built React Native with an SQL Server, optimized for tablet use by advisors.
- Implemented secure Microsoft OAuth authentication, dynamic advisor routing, and automated SMTP notifications.
- Coordinated with faculty/Dean in sprint-based workflows
- Presented the system at SEIT IT Expo and delivered to production for ongoing use.

Portfolio Website – 2025 ([www.ramiyan.ca](http://www.ramiyan.ca))

Full Stack Developer, Independent

- Uses the MERN stack (MongoDB, Express, React, NodeJS) but I replaced React with NextJS
- Currently working on an admin panel to manage data from MongoDB