

Nathan Espejo

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EDUCATION

Western University, London, Ontario

2024–2028 (Expected)

Software Engineering, Bachelor of Engineering Science

Relevant course work: Foundations of Engineering Practice, Business for Engineers, Programming Fundamentals

TECHNICAL SKILLS

Programming languages: Java, Python, C#, C++, JavaScript, HTML, XML, SQL, Kotlin

Technologies: Git, Android Studio, Arduino, OnShape (CAD), Blender, Unity3D, MySQL, TensorFlow

Specialized Skills: Full-Stack Development, Android App Development, Database Management, REST APIs, AI Integration (LLMs & CNNs), Virtual Reality, Game Development, Microcontroller Programming, 3D Design/Printing, React

PROJECTS

Lumen – Mental Health Games and Insights

August 2025

Toronto Metropolitan University, TerraHacks

- Worked with a team to build a full-stack mental wellness app that provides personalized emotional relief through custom tailored games, journaling, and AI-generated insights, winning *Best Use of MongoDB Atlas*.
- Created five games/experiences in Unity3D designed to deal with specific emotional states (e.g. anxiety, sadness, grief) based on research into therapeutic solutions (e.g. breathing exercises, emotional reflection)

SafeRoute – Engineering Design Project

January–April 2025

Western University, Foundations of Engineering Practice

- Collaborated with the client to define the problem of transportation threats from fires and floods, ensuring the proposed solution aligned with stakeholder needs and project requirements.
- Applied the engineering design process by conducting a stakeholder analysis, defining objectives and constraints, and using decision matrices to evaluate and select the optimal solution.

Careerly – Virtual Career Fair

February 2024

University of Toronto, NSBEHacks

- Worked in a team of four to conceptualize, develop, and pitch the solution within 24 hours demonstrating effective time management and collaboration, winning *Best Use of AI* and *Third Place Overall*.
- Combined Cohere's AI and Unity3D's game engine to build a virtual career fair platform that allows users to explore potential career paths while also addressing the underrepresentation of minorities in successful roles.

Transparent Donations – Blockchain Charity App

May 2024

Wilfrid Laurier University, HawkHacks

- Developed a mobile app that uses blockchain technology to enable full transparency of charity donations by allowing donors to see exactly how their contributions are being used.
- Used Android Studio with Java to create an intuitive interface that allows users to track their transaction history.

EXPERIENCE

Software Engineering Intern

May–August 2025

TERAGO, Markham, Ontario

- Developed a fully automated system to manage Jira tickets based on email notifications by using a Local LLM (Ollama) for structured and secure data extraction, Python for logic, and Microsoft's Graph API for email retrieval.

IT Intern

May–August 2025

Microcomputer Consulting Inc., Mississauga, Ontario

- Configured and deployed client computers for multiple companies, including Windows installation, user account setup, and application/configuration changes based on company requirements.

Coding Club Instructor

2022–2024

St. Augustine Catholic Secondary School, Brampton, Ontario

- Organized and led weekly meetings to teach club members how to work with AI, microcontrollers, and circuits.

AWARDS

Western Engineering Competition Finalist: Placed Top 5 out of 87 teams.

2024

Western Engineering Dean's Honour List: Achieved >80% average during first year Engineering

2025