Ryan Hermes

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Education

University of Windsor   September 2021 – April 2025
B.Sc. Honours Computer Science with Honours Software Engineering Specialization   Windsor, ON

Minor: Mathematics
GPA: 4.0/4.0

Technical Skills

Languages: Python, Java, C/C++, JavaScript/TypeScript

Frameworks & Tools: React, Next.js, Express.js, Tailwind CSS, Figma

Cloud & Infrastructure: AWS (Lambda, S3, EC2), Azure (IaC with Bicep), Docker, PostgreSQL, GitHub Actions

Experience

Software Developer Intern, *KōCH Technologies*   April 2024 – August 2024
- Increased user engagement by **15%** by leading the development of a digital fitness platform in React.   Windsor, ON
- Reduced application load times by **20%** by building and deploying a new Android application using React Native.
- Cut operational costs by **10%** by managing and scaling AWS infrastructure to meet user demand.

Software Developer Intern, *Property Revive*   April 2023 – April 2024
- Drove a **40%** increase in customer inquiries by engineering a responsive web application with Next.js/TypeScript.   Windsor, ON
- Achieved **99.8%** uptime and accelerated release cycles by automating CI/CD workflows on Vercel.
- Improved data access performance by **25%** by architecting optimized PostgreSQL schemas.

Teaching Assistant, *University of Windsor*   January 2023 – April 2025
- Mentored over 100 students in Java and Python concepts by facilitating weekly labs and providing targeted   Windsor, ON
  instruction.
- Increased average exam scores by **12%** through targeted tutorials and one-on-one coaching.
- Accelerated student learning by providing timely, constructive feedback on programming assignments.

Tech Lead, *St. Peter's Maronite Parish*   October 2017 – Present
- Lead AV, live-stream, and IT operations, ensuring a seamless technical experience for over 100 weekly congregants.   Windsor, ON
- Increased online viewership by **30%** while maintaining **99.9%** uptime by implementing a cloud-based streaming
  solution.
- Developed the technical skills of a 5-person volunteer team through direct mentorship on equipment setup and
  troubleshooting.

Projects

Tourify   (GitHub)
- An Android application developed in Kotlin with an Express.js backend and SQLite database that allows users to explore destinations, plan
  itineraries, and share travel experiences.

Volt Vista   (Live Demo | GitHub)
- A prototype energy monitoring and management system for homeowners engineered with Next.js and TypeScript.

Personal Portfolio   (Live Demo | GitHub)
- A responsive personal website built with Next.js and Tailwind CSS, optimized for performance and hosted on Vercel with CI/CD.

Cedars Lounge   (Live Demo | GitHub)
- An SEO-optimized restaurant website featuring a reservation system, developed with Next.js, Tailwind CSS, and PostgreSQL.

EscapeJava   (GitHub)
- Engineered a 3D escape room game in Java and Java3D, architecting an event-driven system to manage complex puzzle logic, object interactions,
  and game state progression.

Extracurriculars

CS Games 2025
- Selected as 1 of 20 students to represent UWindsor in an international AI, Web-Dev, and Data-Science competition.

Judge, Winhacks 2024   (Website)
- Evaluated over 50 hackathon projects and provided technical feedback.

Google Code Jam 2022
- Qualified for Round 2 after solving advanced algorithmic challenges.