Cameron Vandermeersch

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TECHNICAL SKILLS

Languages/Frameworks: C • C++ • Java • Python • HTML • CSS • PHP •JavaScript • Typescript • SQL • Kotlin • React • Firebase
Operating Systems: Windows • MacOS • Unix • Linux • Shell
Tools/Platforms: GitHub • Git • Docker • MS Office • Adobe Creative Suite • Google Suite • OpenAI • Netbox • Power BI • Azure

EDUCATION

University of Windsor, Ontario   **Sep 2021 – April 2025**
Bachelor of Science Honours Computer Science (Information Systems)   GPA: 4.0 (98.6% Avg.)
Minor in Mathematics and Business Administration

PROFESSIONAL EXPERIENCE

Network Infrastructure & Automation Software Engineer   **April 2025 – Present**
Enbridge Gas, Chatham, Ontario
- Led the integration of **ITSM workflows** between **ServiceNow** and **NetBox**, streamlining infrastructure change tracking and improving **CMDB** data accuracy
- Developed **automation pipelines** and **Python-based adapters** using **REST APIs** and internal validation utilities to synchronize network configurations and metadata, reducing manual input and configuration time by over **50%**
- Enhanced engineering workflow efficiency by integrating **AI agents** into automation pipelines, enabling **intelligent data validation**, **anomaly detection**, and faster decision-making across network operations
- Designed and maintained **network infrastructure** including **firewalls**, routers, and switches, while developing **Python** and **Ansible** automations that streamlined deployment and monitoring processes, **reducing** manual effort across the enterprise

Information Operations Analyst (Ec. Dev)   **April 2023 – Sept 2023**
Enbridge Gas, Chatham, Ontario
- Engineered **energy infrastructure pipeline analysis solutions**, implementing advanced data methodologies and developing interactive dashboards that informed critical engineering decisions
- Automated data workflows using **Python, JavaScript, Power BI, and AI solutions**, reducing manual analysis time by **30%**
- Developed a digital inquiry system integrating **Azure Analytics, iTrax, and Tableau** to streamline customer submissions
- Architected and deployed a digital transformation initiative, rebuilding legacy systems with modern **full-stack development** and **cloud infrastructure**, achieving **40%** increased digital engagement

Teaching Assistant & Academic Tutor   **Sept 2022 – April 2025**
University of Windsor, Ontario
- Effectively mentored **over 100 students** through one-on-one & group sessions, significantly enhancing their understanding and confidence, while implementing interactive lessons that contributed to a **0.5 increase** in their average GPA.

PROJECTS

 AI-Powered Monitoring System Using Repurposed Devices
Engineered a full-stack web surveillance application leveraging **React.js, WebRTC, Firebase, and YOLOv11** to transform repurposed smartphones into **AI-powered** real-time monitoring devices with live video streaming, event detection, and smart event detection.

 UHelp Student Discussion Form | Get Help and Connect with Peers
Designed and deployed a full-stack web application using **React, TypeScript, Flask, and SQLite** to enable secure, real-time course-based discussions, post threading, peer assistance, and community engagement for University of Windsor students.

 Tourify | Find & Explore Your Next Tourism Destination
Developed a full-stack mobile app using **Kotlin, XML, Node.js, Express.js, and SQLite** that enables users to discover, plan, and engage with global travel destinations, leveraging personalized **recommendation algorithms** and community-driven interactions.

EXTRACURRICULAR EXPERIENCE

UWindsor Computer Science Society   **May 2024 - Apr 2025**
Head of Communications   Windsor, ON
- Leading a team of **20 students** in representing and improving the student experience for over **1000 members**
- Organizing events and providing various resources for social, academic, and professional development