

Alex Nham

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EDUCATION

The University Of Western Ontario

B.Sc. in Computer Science, Minor in Software Engineering (GPA 3.85)

London, ON

Expected Graduation

EXPERIENCE

Software Engineer Intern

May 2025 – Sept 2026

Celestica

Toronto, ON

- Developed a multithreaded monitoring service overseeing 10+ distributed applications, improving system reliability and reducing downtime through proactive alerting and diagnostics
- Led the migration of legacy Oracle SQL databases to Microsoft SQL Server, redesigning schemas and optimizing complex queries to improve performance, ensure data integrity, and enhance compatibility with .NET applications
- Monitored and maintained distributed applications and infrastructure, diagnosing and resolving system issues to ensure continuous service availability.
- Designed, enhanced, and maintained full-stack .NET applications (on-premise and cloud-based) to ensure high scalability, security, and performance.
- Refactored and optimized Excel macros, automating manual workflows and increasing team productivity by 40%.
- Deployed and managed Azure resources, implementing CI/CD pipelines with Azure DevOps to streamline cloud deployments and improve delivery efficiency.
- Developed Python and PowerShell scripts to automate workflow processes, achieving over 50% faster execution and reducing manual errors.

Software Engineer Intern

April 2024 - Sept 2024

AQX AI

New York City, NY

- Developed and optimized a Node.js server for real-time communication with an AI agent, reducing latency by 90%
- Integrated speech-to-text and text-to-speech solutions, enhancing system efficiency and user interaction
- Designed a React front-end interface for initiating outbound calls with the AI Agent API
- Containerized server and databases with Docker, streamlining deployment on Azure cloud services

Website Coordinator

August 2023 - April 2024

Talbot Promotions

London, ON

- Developed and maintained custom client merchandise stores, ensuring responsive and user friendly designs to enhance user experience and drive online sales.
- Designed custom automation scripts in Python with API calls, improving workflow processes by over 70%
- Managed and organized large datasets with Microsoft Excel, enabling faster uploads and timely project completion
- Utilized JSON to manage and edit custom features, enhancing project flexibility and alignment with specifications

PROJECTS

Adrenal Nhamogram | *Flutter, React.js, Python*

2024

- Co-developed a validated scoring system for adrenal incidentalomas, presented at the AUA Annual Meeting 2024, enhancing diagnostic accuracy and clinical decision-making.
- Built a cross-platform mobile app in Flutter (iOS/Android) and a responsive web app with React.js, enabling healthcare professionals to access the scoring tool seamlessly across devices.
- Collaborated with clinicians and researchers to ensure the system's accuracy, usability, and alignment with real-world medical workflows.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, C#, JavaScript, TypeScript, SQL, Bash, Rust

Frameworks & Libraries: React.js, Node.js, Express.js, Flask, Django, .NET, React Native, Flutter, Tailwind CSS

Databases: MySQL, MongoDB, PostgreSQL, Microsoft SQL Server

Cloud & DevOps: Azure, Docker, GitHub Actions, CI/CD Pipelines, RESTful APIs, Postman, Nginx

Tools & Platforms: Git, Visual Studio Code, Postman, Figma, Jira, Unix/Linux, Microsoft Office Suite

Additional Skills: Agile Methodologies, System Administration, Troubleshooting, Automation Scripting, Team Collaboration, Problem Solving, Strategic Thinking