

Benedict Halim

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EDUCATION

Wilfrid Laurier University

Honours Bachelor of Science in Computer Science, Minor in Economics

Sep. 2021 – Oct. 2025

Waterloo, ON

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals

Able to describe cloud concepts, Azure architecture and services, and Azure management and governance

EXPERIENCE

AI Software Engineer (Full-Stack) | Next.js, Express, Flask, PostgreSQL, Nginx

SigmaXL Oct. 2025 – Present Kitchener, ON

- Improved AI answer relevance by designing a production-grade RAG pipeline with metadata-rich embeddings, tuned MMR retrieval, and OpenAI's text-embedding-3-large model
- Scaled vector embedding generation safely by implementing batched processing with adaptive throttling and rate limiting, eliminating OpenAI API errors and production instability
- Reduced LLM latency and cost by adding a preprocessing layer that short-circuits greetings, empty messages, and low-signal queries before invoking the model
- Built a full-stack document ingestion pipeline enabling non-technical teams to upload PDF, HTML, and JSON for AI retraining, with asynchronous processing and real-time progress tracking

Software Engineer – Cloud & Data Systems | T-SQL, Python, Azure

Solucore Jan. 2025 – April 2025 Mississauga, ON

- Built 20 optimized T-SQL stored procedures/functions in SQL Server Management Studio (SSMS) with indexing to improve query efficiency
- Developed and deployed an Azure Function with 20 Python functions via ODBC to automate SQL execution in the cloud
- Connected an Azure Function to a ChatBot via HTTPS, enabling clients to access personalized data through simple queries
- Delivered an end-to-end solution across SSMS, Azure, and Python, working independently with mentor oversight

Software Engineer – Data Platforms | T-SQL

Solucore May 2024 – Aug. 2024 Mississauga, ON

- Developed 15+ T-SQL stored procedures and functions in SSMS to streamline client data retrieval for future chatbot integration
- Applied database administration best practices, including naming conventions and normalization to ensure maintainable, scalable database assets
- Enabled faster client information access by preparing database objects for integration with Azure Functions and future automation

TECHNICAL SKILLS

Languages: Python, TypeScript/JavaScript, SQL (T-SQL), HTML/CSS

AI/ML & Data Systems: LangChain, OpenAI API, ChromaDB, RAG Pipelines

Frameworks, Libraries & Databases: Next.js, React, Flask, Express, Django, PostgreSQL, MongoDB, SQL Server

Cloud, DevOps & Developer Tools: Azure, Docker (Compose, Hub), Nginx, Linux (Ubuntu), Git/GitHub, VS Code, PgAdmin, SQL Server Management Studio (SSMS)

VOLUNTEERING

Vice President of Events

UX Laurier

June 2024 – Jan. 2025

Waterloo, ON

- Planned and oversaw major club events, including the annual Designathon with 300+ participants and a \$5,000 prize pool
- Managed event logistics (venue, catering, setup, and team coordination) to ensure smooth execution
- Secured partnerships with companies and organizations to enhance event quality and attendee experience
- Delegated tasks to a team of directors, driving timely completion of responsibilities and fostering collaboration