Benedict Halim

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EDUCATION

Wilfrid Laurier University — Sep. 2021 – Oct. 2025
Honours Bachelor of Science in Computer Science, Minor in Economics — *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* — Oct. 2025 – Present
SigmaXL — *Kitchener, ON*

- Improved AI answer relevance by building a production-grade RAG pipeline with metadata-rich embeddings, tuned MMR retrieval, and an optimized system prompt
- Cut response latency from ∼7s to ∼1s using LLM streaming and a preprocessing/intent-classification layer to bypass unnecessary API calls
- Increased system reliability for large knowledge bases by adding batched embeddings, resource monitoring, rate limiting, and multi-worker-safe file status tracking
- Built a full-stack interface enabling non-technical teams to upload and manage PDFs/HTML/JSON for AI retraining, with instant uploads, progress tracking, and resume-on-reload support

Software Engineer – Cloud & Data Systems | *T-SQL, Python, Azure* — Jan. 2025 – April 2025
Solucore — *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* — May 2024 – Aug. 2024
Solucore — *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, PostgreSQL), 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, Docker Compose, Docker Hub, Nginx, Linux (Ubuntu), Git/GitHub, VS Code, PgAdmin, SQL Server Management Studio (SSMS)

VOLUNTEERING

Vice President of Events — June 2024 – Jan. 2025
UX Laurier — *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