

# Ahamed Mohamed Wajibu

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## EDUCATION

### UNIVERSITY OF WATERLOO

Bachelor of Mathematics

Waterloo, ON

May 2029

## SKILLS / TECHNOLOGIES

- **Languages:** Python, C#, JavaScript, TypeScript
- **Frameworks / etc.:** .NET / ASP.NET Core, Flask, FastAPI, Node.js, React, SQL Server, PostgreSQL, MongoDB, Selenium, OpenCV, LangChain, Ollama, Nginx, Tensorflow, PyTorch, Git, Docker, Linux, Azure, AWS, Agile/Scrum, Unit Testing

## EXPERIENCE

### Mitsubishi

Mississauga, ON

AI Engineer

January 2026 – May 2026

- Built an internal **RAG platform** for aircraft technical manuals using **LangChain, Azure AI Foundry, Ollama, PostgreSQL** and **Microsoft Fabric** supporting **40** engineers at deployment via an internal AI chatbot.
- Engineered **LLM** documents **ETL pipelines** to process **2,000+** technical manuals, extracting fields, summaries, and source-page metadata into **PostgreSQL**.
- Deployed on-prem **Ollama** inference **APIs** behind **Nginx reverse proxy**, serving **Gemma** and **quantized** open-source models for secure internal document analysis and retrieval.
- Developed **ASP.NET Core / React** internal pages for document ingestion, validation, editing, usage reporting, pipeline monitoring, and AI output quality control.
- Integrated **tool calling** into the internal **AI assistant**, enabling document search, page retrieval, **PostgreSQL** keyword search, web search, and inline source citations.

### Mitsubishi

Mississauga, ON

Software Developer

September 2025 – December 2025

- Built **ASP.NET Core / C#** pages replacing manual **SQL Server** scripts for QA call-up updates, aircraft line status updates, job updates, and Syspro service workflows.
- Developed **SQL scripts** and **ETL** data workflows for production data fixes, validation checks, employee/job records, and manufacturing system updates.
- Automated repetitive **Syspro** and production support workflows for **100s** of production workers and dozens of **Syspro** users, reducing manual staff time spent on database update requests.
- Refactored **Entity Framework** services, **LINQ** queries, and **SQL Server** access patterns, cutting request latency by **~30%** and reducing redundant database calls across production modules.

### D2DAnalytics

Mississauga, ON

Software Developer

November 2025 – December 2025

- Rebuilt authentication systems to use **OAuth 2.0 / OpenID** Connect with **Microsoft Entra ID**, enabling sliding login sessions and seamless reauthentication across frontend and backend.
- Built a backend system that **archives** and **indexes X (Twitter) API data**, enabling historical access to content beyond the platform's native one-week window.

## PROJECTS

### InternFlow | FastAPI, People Data Labs API, OpenAI API

- Engineered a recruiter discovery + outreach system using **People Data Labs's API** and **OpenAI's API** to extract, enrich, and rank candidate contacts.
- Designed a custom **scoring** pipeline (feature-based ranking + **LLM** evaluation) and **prompt-engineered** message generation for high-quality personalized outreach.

### BrushAI | Krita Python API, PyQt, Gemini API, Fine-Tuning, Image Inpainting

- Built a **ML Workflow** for AI-assisted image editing, integrating **mask-based** selection, **prompt-driven inpainting**, and **external image generation APIs** for localized artwork edits.
- Developed a layer-aware editing workflow using **Krita's Python API**, enabling artists to apply targeted object removal and style-preserving transformations without modifying surrounding artwork.
- Prototyped **LoRA / QLoRA fine-tuning pipelines** to adapt generative image models for custom art-style consistency and mask-based prompt optimized inpainting.