

Jawdat Al-Jabi

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EDUCATION

McGill University

Bachelor of Electrical Engineering — Minor in Applied Artificial Intelligence (GPA: 3.8/4.0)

Montreal, Quebec, Canada

2023 – 2027

WORK EXPERIENCE

Machine Learning Intern

January 2026 – April 2026

Autodesk

Montreal, Quebec, Canada

- Created a reusable **Agent framework** in **Python** on **Amazon Bedrock** using the **Amazon Strands SDK**, enabling **6+ Autodesk product teams** to launch **50+ in-product Agent assistants** with a shared architecture.
- Standardized **Agent tool access** through **MCP servers**, reducing new tool integration time by **80%** and eliminating duplicated tool wiring across teams
- Implemented **token streaming for Agent responses**, cutting time-to-first-output by **65%** and **improving interactive UX** for production workflows.
- Built a **RAG pipeline** using **Amazon S3** for document and vector storage, enabling **6+ product teams** to ingest **50,000+ chunks** and improve relevant document retrieval by **55%**.
- Designed a **token quota system** and **usage dashboard** to track consumption across **50+ Agents** and multiple model providers, **reducing monthly token spend by 25%** and preventing overages with enforced limits.
- Deployed services to **DEV, STG, and PRD** with **Spinnaker** and **Terraform**, improving release reliability through **infrastructure as code** and consistent promotion workflows.

AI Software Developer Intern

May 2025 – August 2025

UKG

Montreal, Quebec, Canada

- Engineered **RAG pipelines** in **Python** using **LangChain** and **Google Vertex AI**, with **MongoDB**-based embedding storage and **SQL**-backed metadata, increasing document query relevance by **40%**.
- Built and deployed **15+ task-specific Agents** in **Python** using **LangGraph**, integrating **REST APIs** and agentic tools via **FastAPI** to support automated workflows.
- Integrated a **Redis-backed semantic caching** layer to eliminate redundant **LLM** calls, cutting token usage by **60%**, improving response speed by **23x**, and saving **\$200K+** annually in inference costs.

Software Developer Intern

May 2024 – August 2024

Biomomentum Inc.

Montreal, Quebec, Canada

- Engineered a real-time signal processing pipeline in **Python** for biomechanical testing hardware, reducing latency by **80%** via **multithreading** and **algorithmic optimization**.
- Automated **QA** workflows in **Python**, cutting manual testing effort by **25%** and enabling **CI/CD** integration.

EXTRACURRICULAR & LEADERSHIP

Machine Learning Researcher — McGill AI Lab

Sept. 2024 – Present

- Designed and trained **deep learning models** in **PyTorch** and **NumPy**, achieving **98%+ accuracy**.

System Manager — McGill Robotics

Sept. 2024 – Present

- Led a **15 member** software team, overseeing system architecture and improving task completion by **30%**.

Software Developer — McGill Robotics

Sept. 2023 – Present

- Built real-time coordination scripts and debugging tools in **Python**, **C**, and **C++** enabling efficient control of **20+ hardware components** and reducing troubleshooting time by **40%** for **50+ robotics members**.

Teaching Assistant — Marianopolis College

Jan. 2024 – Dec. 2024

- Graded assessments and assisted in delivering college Physics courses for **150+ students**.

PROJECTS & HACKATHONS

🔗 AI Stock Market Predictor | *Python, Dash (Plotly), TensorFlow, Keras, Pandas*

January 2025

- Built an **LSTM-based** stock prediction web app with an interactive **Dash (Plotly) frontend**, achieving **90%+ accuracy** on real financial data and improving reliability by **40%** through cross-correlation matrices.

🔗 Car Dealership Chatbot | *Python, React, Next.js, CSS, SpaCy, Pandas, MongoDB, Flask*

November 2024

- Built a live **Natural Language Processing** chatbot with custom **Named Entity Recognition** and **Sentiment Analysis** models, cutting user search time by **90%** and boosting intent recognition to **95%**.

TECHNICAL SKILLS

Languages: Python, C, C++, Java, SQL

Libraries/Frameworks: LangChain, LangGraph, Amazon Strands, PyTorch, Tensorflow, Pandas, Matplotlib, FastAPI, Flask

Tools: AWS, GCP, Docker, Kubernetes, Terraform, Spinnaker, Splunk, Grafana, Git, GitHub, MySQL, MongoDB