

Kamal Yassin

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EDUCATION

Carleton University

Bachelor of Computer Science (AI & ML Concentration)

Ottawa, ON

Sep. 2022 – Aug. 2026

EXPERIENCE

AI Engineer Intern

Taskd.ai Startup

Jan. 2026 – Apr. 2026

Ottawa, ON

- Developed full-stack features using TypeScript, React, and Node.js, connecting frontend interfaces to backend application logic for Taskd's AI platform.
- Integrated LLM APIs with Node.js backend services, connecting model responses to application logic.
- Implemented LLM function calling to translate natural-language requests into executable business logic, reducing manual processing time by 35%.
- Diagnosed and resolved frontend, backend, and API integration issues to improve application reliability.

Database Administrator Intern

Al Bayanat

June 2024 – Aug. 2024

Amman, Jordan

- Managed and maintained Oracle SQL databases, performing database patching, backups, security updates, and system monitoring to maintain 99.9% availability.
- Optimized SQL queries and scripts for large datasets, improving database performance and query efficiency.
- Resolved production database issues with senior DBAs, reducing incident resolution time by 30%.

PROJECTS

Fetal Health Risk Classification System | Python, Scikit-learn, Pandas, NumPy

Apr. 2026 – Aug. 2026

- Developed a fetal risk classification system with Python and Scikit-learn, trained on 552 CTG recordings.
- Implemented signal preprocessing and feature engineering with Pandas and NumPy.
- Trained and evaluated ML classifiers using cross-validation and performance metrics to predict fetal risk levels.

Insulin Pump Simulator (Tandem t:slim) | Qt, C++, Medical Simulation

Mar. 2025 – Apr. 2025

- Engineered a Qt/C++ simulator replicating insulin delivery and CGM monitoring using modular design.
- Implemented safety-critical error handling, reducing simulated failures by 30%.
- Designed reusable C++ components using object-oriented programming to improve maintainability.

Event Management System | Python, SQL, SQLite

Nov. 2024 – Dec. 2024

- Designed a normalized SQLite many-to-many schema supporting multi-activity event registration for 500+ users.
- Built a Python/Tkinter desktop application enabling activity search, signup, and attendee schedule tracking.
- Enforced validation checks to prevent duplicate enrollments and ensure data integrity across 1,000 records.

TECHNICAL SKILLS

Languages: TypeScript/JavaScript, Python, C/C++, Java, SQL, HTML/CSS

Frameworks & Libraries: React, Node.js, Astro, NumPy, Pandas, PyTorch

Cloud & Tools: AWS, Google Cloud Platform, Docker, Git, Linux, VS Code

Databases: MongoDB, SQLite, Oracle SQL

AI & APIs: REST APIs, OpenAI API, Anthropic Claude API, Ollama