

# Kamal Yassin

Canadian Citizen | Reliability Security Clearance | Kamalr\_yassin@hotmail.com | (613) 297-4737 | LinkedIn: [Kamal Yassin](#)

## EDUCATION

### B.S. in Computer Science

Ottawa, Canada

Carleton University

Expected Graduation, April 2026

- **Concentrations:** Artificial Intelligence and Machine Learning
- **CGPA: 9.5/12 (B+)**
- **Related Coursework:** Data Structures & Algorithms, Database Management, Operating Systems, Machine Learning, Object-Oriented Programming, Discrete Structures, Web Development, Statistics & Applications
- **GitHub:** <https://github.com/KamalYassin>

## SKILLS

- **Programming Languages:** Python, Java, C/C++, SQL, JavaScript, HTML/CSS
- **Frameworks & Libraries:** TensorFlow, Node.js, React.js, Pandas, NumPy
- **Tools:** Linux, Docker, OpenStack, Microsoft 365, Power BI
- **Databases:** Oracle SQL, SQLite

## TECHNICAL EXPERIENCE

### Database Administrator

Amman, Jordan

Al Bayanat

June 2024 – Aug 2024

- Administered and secured Oracle SQL databases, performing updates and access controls to ensure 99% uptime.
- Optimized SQL queries, improving query performance by ~25% for large-scale datasets.
- Collaborated with IT teams and senior DBAs to troubleshoot critical issues, reducing downtime by 40%.
- Implemented access controls and data integrity checks, strengthening database security.

## PROJECTS

### Insulin Pump Simulator (Tandem t:slim)

Ottawa, Canada

QT/C++ Medical Device Simulation

March 2025 – April 2025

- Developed a Qt/C++ simulator replicating insulin delivery and CGM monitoring with modular architecture.
- Conducted safety-critical error handling, reducing simulated system failures by > 30%.
- Utilized object-oriented principles to improve code scalability and maintainability.

### Convolutional Neural Network for Digit Classification

Ottawa, Canada

Deep Learning Model

Jan 2025 – Jan 2025

- Designed and trained a CNN to classify handwritten digits with 97% accuracy on the MNIST dataset.
- Applied hyperparameter tuning and optimization techniques, boosting accuracy by 12% over baseline models.
- Leveraged Python libraries (NumPy, Pandas, TensorFlow) to create an efficient end-to-end ML pipeline.

### Event Management System

Ottawa, Canada

Database-Driven Event Management Platform

Nov 2024 – Dec 2024

- Built a relational database with many-to-many relationships, enabling complex event and user registrations.
- Created reporting features and analytics dashboards to support decision-making.
- Ensured data accuracy and integrity through validation mechanisms, reducing data entry errors by 20%.

### Interactive Curling Game

Ottawa, Canada

Local Server Multiplayer Game

Nov 2023 – Dec 2023

- Constructed a real-time multiplayer game, supporting 10+ concurrent users with minimal latency.
- Delivered a project that combined back-end logic with front-end interactivity, strengthening full-stack skills.