

# Reem Alsamara

Mississauga, ON

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Highly motivated Software Engineering Technology student specializing in Artificial Intelligence. Combines a strong technical skillset in Python, SQL, machine learning, data modeling, and reporting with 6+ years of clinical and applied research experience as a General Practitioner. Developed and deployed AI agents, web services, web applications, and database solutions through major course projects, demonstrating practical application of AI in digital health.

## PROFESSIONAL SUMMARY:

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- Adaptable and quick-learning software engineer with a solid understanding of machine learning concepts and AI ethics.
- Expertise in front-end (React.js, HTML/CSS) and back-end (Node.js, Java) development.
- Strong skills in SQL, Python, and JavaScript.
- Experienced with Agile methodologies and tools like Jira and GitHub.
- Excellent problem-solving and teamwork abilities, demonstrated in fast-paced environments.

## KEY SKILLS:

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Python, Java, JavaScript, C# React.js, HTML5, CSS Scrum and SAFe 6.0	MongoDB, Oracle SQL Machine Learning Data Modeling	Python Web Development Git, GitHub, IntelliJ IDEA, Visual Studio Code, Postman
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## EDUCATION:

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**Software Engineering Technology - Artificial Intelligence (Co-op) Advanced Diploma** Jan. 2025 - Present  
Centennial College, Toronto, ON

Courses: Linux/Unix OS Testing & Quality Assurance Web Application Development	Database Concepts (SQL) C# Programming Java Programming	AI Foundations Web Interface Design Ethics of AI
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**Doctor of Medicine** Sep-2008 Sep. 2014  
Damascus , Syria

## SELECT PROJECTS:

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### Agent-Based System

- Developed an agent-based simulation in Python to model the behavior of a blind dog searching for food and water within a park environment, demonstrating proficiency in object-oriented programming and agent design.
- Implemented an Environment class with methods for defining percepts, executing actions (move, eat, drink), and determining the simulation's termination condition, showcasing a strong understanding of AI environment design.
- Designed a BlindDog agent with a simple AI program that makes decisions based on perceived objects (food, water) in its location, illustrating the application of basic AI algorithms and decision-making processes.

### Real Estate Listing Website

- Developed a responsive web platform for realtors to showcase available properties, allowing clients to browse, search, and save favorites.
- Implemented interactive features such as property filters, image galleries, and a favorites list for personalized user experience.
- Built with HTML, CSS, JavaScript, and jQuery, ensuring cross-browser compatibility and a mobile-friendly interface.
- Focused on clean UI/UX design, making it easy for clients to explore and compare properties.
- <http://studentweb.cencol.ca/ralsamar/ch6pacific/individualproject/home.html>

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## Clinic Booking System – Mobile & Web Application

- Designed a patient-facing mobile app and website for booking appointments, viewing doctor availability, and managing personal health information.
- Designed a web-based admin dashboard for clinic managers and doctors to set availability, manage bookings, and track patient flow.

## E-Commerce Online System – Database Design & Implementation

- Designed the Entity Relationship Diagram (ERD) to model business processes such as products, customers, orders, and payments.
- Created logical and physical database schemas to support scalable e-commerce operations.
- Implemented database tables, constraints, and relationships in Oracle SQL for backend service integration.

## OTHER EXPERIENCE:

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### General Practitioner

May 2016- May 2019

Damascus, Syria.

- Provided comprehensive primary care services to a diverse patient population.
- Procured routine check-ups, screenings, and managed chronic conditions.
- Collaborated with specialists for integrated patient care.

### General Practitioner-Under supervision

May 2019 - May 2021

Dubai, UAE.

- Completed medical attachments gaining exposure to healthcare practices in Dubai.
- Engaged in clinical rotations, observing and assisting in various medical specialties.
- Developed cultural competence in patient care.

## COMMUNITY ENGAGEMENT:

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### Summer Camp Counselor/Assistant

Jul 2025 – Sep 2025

- **Organization:** A local community center in Mississauga.
- **Description:** Assist in the delivery of summer camp programs for children, providing a safe, fun, and engaging environment .