

Karim Hanna

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Skills and Qualifications

Skills: C, C++, Java, JavaScript, Swift, Erlang, Python, HTML, CSS, Node.js

Languages: French, English, Arabic

Education

Concordia University - Montreal, QC, Bachelor of Computer Science CO-OP Sept 2022 – Sept 2027

- **Coursework:** Object Oriented Programming I & II, Web development, Data Structures and algorithms, principles of programming

Experience

Web-Developer (freelancer), Montreal - QC July 2024 – Sept 2024

Developed a fully responsive, secure, and scalable **web application** tailored to internal workflow needs for a **pharmaceutical company with over 50 employees**. Collaborated with cross-functional teams including R&D and operations to **analyze requirements, design UI/UX**, and deliver a custom-built solution using **Node.js, Express, and MongoDB**. Integrated features for **inventory tracking, employee login authentication**, and **real-time communication, improving workflow efficiency by 30%**. Ensured compliance with **data privacy standards** and maintained version control using **GitHub**.

Apprentice Intern, Karma Steel, Cairo, Egypt June 2023 – August 2023

Learned to use engineering software such as **AutoCAD** to create complex engineering drawings for stainless steel pipelines for a German contracting company. Integrated with the team at Karma Steel and improved communication skills to effectively interact with people from diverse backgrounds.

Projects

Othello Game – OOP Java June 2024 | GitHub

- Developed a UML class diagram to structure the game, incorporating key classes such as **Game, Board, Position, Piece**, and **Player**, with proper relationships and inheritance
- Implemented game logic to handle piece placement, flipping mechanics, and win conditions while maintaining an efficient and scalable code structure
- **Tools Used:** Java

Pet Adoption Website July 2024 | GitHub

- Developed a dynamic pet adoption website using **Node.js, EJS, and JavaScript**, enabling users to create accounts, list pets for adoption, and manage entries securely
- Implemented a login system with **file-based authentication**, integrating a **modal-based login prompt** and a **sidebar** that dynamically updates based on user login status
- **Tools Used:** Node.js, HTML, CSS, JavaScript

Digital Library – Java OOP April 2024 | GitHub

- Implemented **file I/O** and demonstrated solid understanding of **exception handling, inheritance**, and class design
- Managed **serialized binary files** and implemented reliable **deserialization** techniques to handle persistent data
- **Tools Used:** Java

Leadership

Propulsion Subteam Member, Space Concordia, Concordia University, Montreal, QC 2023 – Present

Designing brackets and parts for the first ever liquid fuel student-built amateur rocket at Concordia