

# Omar El masaoudi

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[omars-portfolio-site.vercel.app/](https://omars-portfolio-site.vercel.app/)

## SUMMARY

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**Full-stack software engineer** experienced in building scalable applications with a focus on cloud-native development, containerization, and a growing skillset in machine-learning/deep-learning.

## EDUCATION

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### Concordia University

Montreal, QC

*Bachelor of Engineering in Software Engineering*

*2022-2026*

- Relevant course-work: Databases, Data structures and Algorithms, OOP (Java), Web programming (php, js), Functional Programming (Erlang, Clojure), Software Processes and lifecycle, & Software Architecture

### DeepLearning.AI Machine, Deep Learning & NLP Specialization

*Online course*

*May 2024 - July 2024*

- Regression models, CNNs, Neural Networks, Sequence Models, Recommender Systems, Unsupervised Learning, Decision Trees, and Reinforcement Learning.
- Computer Vision: Object detection and localization using different models like YOLO & R-CNN in addition to using one-shot learning for facial recognition and various other CNN architectures ranging from LeNet to ResNet, MobileNet, and the U-net architecture for semantic segmentation.
- Natural Language Processing: RNN's, Sentiment Analysis, GRU's, Siamese Networks, encoder-decoder self-attention

## PROJECTS

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### Managed Medivac Application | *React, Ts, Go, PostgreSQL, Docker, AWS*

February 2024 – present

- Enhanced medivac operations with a centralized platform for stock, personnel, and patient data. Features include supply tracking, scheduling, real-time flight updates, and secure access – boosting efficiency and response times.
- Designed a responsive UI with **React**, **Vite**, and Chakra UI for optimal user experience.
- Implemented a scalable and fault-tolerant **microservices** architecture for flexibility.
- Secured the platform with a custom **TypeScript** ID provider, NGINX reverse proxy, and **JWT**-based authentication.
- Developed a high-performance **Go** backend (Fiber Framework) leveraging Go's concurrency for efficient task management.
- Automated AWS deployment with a custom CI/CD pipeline (Docker) for rapid updates.

### Operations Manager Application | *JavaScript, express-JS, React, MySQL*

May 2023 – August 2023

- Developed a comprehensive management program for orders, medical/maintenance stock, and drug inventory – streamlining operations and optimizing decision-making.
- Built a full-stack web application (**JavaScript**, **Express.js**, **React**) with a REST API for centralized operations data.
- Integrated inventory monitoring to ensure efficient resource allocation, preventing shortages and overstocking.
- Secured sensitive data with **JWT**-based user authentication and authorization.
- Deployed on **AWS** for scalability and rapid development, then transitioned seamlessly to company servers for long-term use.
- Designed a relational database schema using **MySql** to optimize relationships between orders, inventory, history, and missions, enhancing operational efficiency.

## SKILLS

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**Languages:** Java, Go, Python, Typescript, HTML/CSS

**Frameworks:** TensorFlow, Numpy, Keras, Fiber (Go), NodeJs, Nextjs, Tailwind CSS

**Databases:** Postgres, Mysql, Neo4j, MongoDB, Redis

**Developer Tools:** Git, AWS, Docker, Kubernetes K8's, Vercel