

Karim Jaouhar

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EDUCATION

YORK UNIVERSITY

BSC IN COMPUTER SCIENCE

Aug 2023 | Toronto, ON Canada

Lassonde School of Engineering

GPA: 3.4 / 4.0

IROQUOIS RIDGE HIGHSCHOOL

Grad. May 2020 | Oakville, ON Canada

SKILLS

PROGRAMMING LANGUAGES

Java • Javascript • Python

C • C# • PHP • Swift

Prolog (Logic Programming)

WEB DEVELOPMENT

HTML • CSS • React • Node.js

TypeScript • MySQL • MongoDB

Tailwind • Framer • CMS (WordPress)

NextJS • Vercel • SSL • HTTP • REST API

SOFTWARE DEVELOPMENT

Object-Oriented • Agile (SCRUM)

Design Patterns • Software Architectures

TDD • JUnit • SpotBugs

TOOLS AND UTILITIES

git (version control) • Eclipse IDE

VS Code • Xcode • Serveless

Linux • Mac OS • Windows

COURSES

YORK UNIVERSITY

Software Design & Engineering

Data Structures & Algorithms

Algorithm Design & Analysis

UI/UX Design

Embedded Systems

(HCS12 & Beagle Bone AI)

Artificial Intelligence

(Heuristic Search & Prolog)

Data Analysis

Computer Professional Ethics

Computational Theory

INDEPENDENT STUDY

React JS Front-end Development

Node JS RESTful API Development

Next JS & Vercel Deployment

Embedded Systems, Node MCUs, Arduino

TECHNICAL PROJECTS

MY SKATE SPOTS (SOCIAL WEB APP) | GITHUB

NextJS, React, MySQL Database, Vercel, Agile (SCRUM)

- **Full stack social web application**, for sharing local skateboarding spots.
- Built with NextJS, consists of React Front-end, REST API, MySQL DB, following Agile (SCRUM) process, and Deployed publicly on Vercel.
- **Positively impacted my local skateboarding community**, and further grew my passion for the sport.

SMART FRIDGE INVENTORY SOFTWARE | GITHUB

Software Engineering

- The Smart Fridge Inventory System (SFIS) is a software project developed by my team for the EECS Software Design Course.
- **Developed in Java with Object Oriented paradigm** and uses MySQL Database. Following the **Agile (SCRUM) process in 3 iterations**. And utilizing **SOLID design principles and patterns**.
- Evaluated by QA Team and validated by our Client Team. We achieved an **A+ mark** on this project and got **positive feedback** from our professor.

HOME SECURITY SYSTEM | GITHUB

IoT, React, RESTful API & AI (LLM)

- **Home security system** based on ESP32 Node MCU and interfaced with a React application that utilizes LLM (GPT3/4) technology enabling **multilingual unstructured natural language prompting** instead of a basic UI.

LSTM BOXING CLASSIFIER | GITHUB | DEMO

Machine Learning, Data Collection, Javascript & MCU

- **LSTM model** to classify different boxing punches using **accelerometer data** collected from an ESP32.
- currently researching its application in interactive games, Health and Fitness, and Rehabilitation.

EXPERIENCE

SKAZ GARAGE DOOR INC. | WEB APP DEVELOPER

Dec 2021 - Jan 2022 | London, ON

- Designed and developed a web application for **SKAZ Garage Door Inc.** that enables garage door customization, resulting in **significant improvements to their customer experience** and **reducing** the number of **customer service calls by 15%**.

WEB DESIGN & DEVELOPMENT | SELF-OWNED BUSINESS

Dec 2021 - April 2023 | Oakville, ON

- Designed and Developed Websites for a diverse set of **Canadian businesses**.
- Responsible for **delivering critical business projects on time**, Reporting **Performance Data** to business leaders and shareholders, installing and setting up core business software. And organizing staff training.