# **Husam Kassab**

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#### **SKILLS**

Languages: JavaScript, PHP, Python, HTML, CSS, SQL, Java, C

Frameworks/Technologies: Laravel, Git, Jira, MySQL, MongoDB, NodeJS, React, NextJS, JUnit, jQuery, PyTorch

Skills: API Creation, State Management, Agile & Sprint Methodologies, Debugging, Code QA, Prompt Engineering

#### **EXPERIENCE**

# Kenna Technology Solutions | Full Stack Application Developer

September – December 2024

- Implemented **UI/UX** design based on user feedback, enhancing usability and engagement.
- Developed and optimized RESTful APIs using NodeJS and ExpressJS, reducing response times by 25%
- Designed **SQL** database tables to improve query performance and data integrity, increasing system efficiency.
- Collaborated with a large team using **Git** and **Bitbucket** to streamline workflows and maintain release schedules.

#### Adidas Canada | Retail Sales Associate

September 2021 – September 2022

- Provided exceptional customer service to create a positive shopping experience for customers
- Collaborated with team members to meet store goals and resolve customer concerns promptly.

### RELEVANT PROJECTS

#### Large Language Model Analyzer

April 2025

- Developed a full-stack AI chat application using **React.js**, **Node.js**, **Express.js**, and **MongoDB**, enabling real-time communication via **Socket.IO** and support for memory modes.
- Integrated models such as claude-3.5, gpt-3.5, gpt-4o-mini, o3-mini, and o1-mini with prompting (Few-Shot, CoT, Role).
- Built a **PyTorch-based ML model** to estimate token usage and cost, leveraging **Pandas** for data preprocessing and integrating visualizations using **Chart.js** and dynamic UI components.
- Secured authentication with **bcryptjs**, **express-session**, **OAuth 2.0**, and **Google APIs**, while benchmarking model performance with **BLEU**, **ROUGE**, and **F1 scores** via **NLTK** and **rouge\_score**.

TMUsic May 2024

- Developed a music-social app using **PHP**, **Laravel**, and **React.js**, with **Spotify**, **Pusher**, and **Google OAuth APIs** for real-time updates and user auth.
- Built back-end routes and secure server-side database in PHP using frameworks such as Laravel and libraries like socialite and livewire.

# **Urban Greenspace Management System**

April 2024

- Coded backend with **FastAPI** and **MySQL** to manage plant watering schedules, using **Python** for scheduling logic.
- Designed the front end with **React.js** and **Tailwind CSS**, enabling plant search and management features.

#### **EDUCATION**

# **Toronto Metropolitan University (Previously Ryerson University)**

Toronto, ON

B.Sc. - Computer Engineering | Software Specialization

*May 2025* 

• Related Coursework: Software Systems, Computer Networks, Database Systems, Data structures and Algorithms, OOP, Software Design and Architecture, Software Requirement Analysis and SPEC

## LEADERSHIP EXPERIENCE

#### **Competitive Programming Club**

Toronto, ON

*Toronto Metropolitan University (Previously Ryerson University)* 

April 2022 - Present

• Competed in weekly competitions, attended technical interview preparations, and helped improve existing projects from other students.