Yazan Haddad

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Education

York University   Toronto, ON
Bachelor of Engineering in Software Engineering   *Expected: Apr. 2026*
Coursework: Object-Oriented Programming, Data Structures, Embedded Systems, Digital Logic Design.

Experience

Lassonde Engineering Society   Remote
Web Developer   *May 2024 - Present*
- Developed and launched a website using **React** & **Tailwind CSS**, enhancing academic resources for **720+** EECS Engineering students at York University.
- Created and curated detailed guides and resources for **30+** courses, including FAQs and additional support materials, resulting in improved student performance and satisfaction.
- Incorporated club executive feedback and provided regular progress updates within strict timelines, enhancing user satisfaction and alignment with stakeholder expectations.

Student Support Application Development Council   Remote
Application Developer   *Jan. 2024 - Apr. 2024*
- Contributed to helpful open-source tools for York University students, including a **dining app** with a **team of 5**, featuring **85+** restaurants across York University.
- Utilized **BeautifulSoup & Python** to parse and filter data from York University's dining directory, enhancing user search with **filters** for dietary restrictions, cultural cuisine, and locations, improving search efficiency by **25%**.
- Improved code quality and robustness using **Java**, conducting unit tests with **JUnit**, covering over **95%** of the codebase and addressing edge cases.

Computing Students Hub   Toronto, ON
Club Executive   *Sept. 2024 - Present*
- Drove member engagement in a club of **1700+** students by assisting in organizing events, workshops and meetups.
- Led outreach efforts with **15+** club executives, volunteers and boosting community participation by **12%**.

Projects

ArduinoVid-19 Assessment | *Java, Arduino Uno*
- Implemented a COVID-19 screening assessment using **Java & Arduino Uno** with a temperature sensor.
- Measured and plotted **temperature-zone graphs** using sensor data, with a mean accuracy of **33.1°C (sensor)** compared to **36.2°C (thermometer)**, alerting users to possible fever conditions.
- Integrated libraries **JSSC & Firmata4j** to communicate with board pins, processing over **10 sensor readings** per trial with an average temperature bias of **3.1°C** between thermometer and sensor.
- Designed and implemented **Java Swing dialogue boxes** for user interactions, improving user input accuracy by providing **real-time alerts** based on sensor readings.

Soccer Analytics Tracker | *Python, OpenCV, YOLO*
- Applied **KMeans** clustering and **OpenCV** for player segmentation, identifying jersey colours achieving **98%** accuracy.
- Fine-tuned & designed **YOLOv8** models using **Ultralytics** for object detection, improving accuracy with custom datasets.
- Utilized **optical flow** algorithms to track camera movement and measured player speed and distance in video footage.

AniDex | *React.js, Node.js, Express.js, MongoDB*
- Built a full-stack application using the **MERN stack** & **Jikan API**, enabling users to search & add anime to watch list.
- Optimized API call efficiency, reducing load times by **30%** improving user retention.
- Allowed users to perform **CRUD** operations on watch list using **Node.js, Express.js and MongoDB**
- Designed responsive UI with **React** and **Material-UI**, enhancing user experience by **15%**.

Technical Skills

Languages: Java, Python, HTML, CSS, JavaScript, SQL.
Frameworks & Developer Tools: Node.js, Express.js, React,js, Git, Unix/Linux, JUnit, Flask, MongoDB.
Libraries: JSSC, Firmata4j, Princeton StdLib, BeautifulSoup.