

# Yazan Haddad

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## Education

### York University

Bachelor of Engineering in Software Engineering

Toronto, ON

Expected: Apr. 2026

**Coursework:** Object-Oriented Programming, Data Structures & Algorithms, Software Systems (Linux)

## Leadership

### Computing Students Hub

Technical Executive

Toronto, ON

Sept. 2024 - Present

- Maintained & launched static website using **HTML, CSS & JavaScript**, enhancing academic resources for **3000+** Computer Science, Software & Computer Engineering students at York University, with over **100** active users
- Curated detailed guides and resources consisting at least **30** courses, including FAQs & additional support materials
- Addressed club executive feedback and provided regular progress updates on website within strict timelines
- Deployed static website using **Amazon S3**, configuring **HTTPS** via **Amazon CloudFront** to ensure secure access
- Advanced visitor counter by utilizing **Amazon DynamoDB** for data storage and retrieval, integrating it with a **RESTful API** implemented through **AWS API Gateway** and **Lambda**
- Analyzed data of visitor retention within **90 days** for **1900+** member club Discord server using **Python & Pandas**
- Streamlined **Matplotlib** to identify trends of returning visitors from events and server announcements, aiming to increase member engagement

## Projects

### ArduinoVid-19 Assessment | Java, Arduino, Java Swing, Firmata4j

- Implemented a COVID-19 screening assessment using **Java & Arduino Grove** board with a temperature sensor
- Measured and plotted **temperature-zone graphs** from sensor data using Princeton's **Drawing Standard Library**
- Integrated libraries **JSSC & Firmata4j** to communicate with board pins, processing **50+** sensor reading trials with an average temperature bias of **3.1°C** between thermometer (**36.2°C**) and sensor (**33.1°C**)
- Displayed **Java Swing** dialogue boxes & **OLED display** for user interactions, enhancing user experience & information visibility by providing real-time alerts based on sensor readings, with feedback using LEDs & buzzer

### Honkai: Star Rail Leaks Bot | Python, TypeScript, Docker, AWS Lambda

- Developed a Discord bot in **Python** that automatically fetches and sends messages from the game leaks subreddit, with over **250,000** members, using the **Reddit** and **Discord API**
- Utilized **AWS CDK** with **TypeScript** to deploy bot to **AWS Lambda** to automate and management of cloud resources, enabling scalable and maintainable infrastructure for the bot
- Reduced cloud infrastructure costs by **81%** by containerizing bot dependencies with **Docker** & execute API calls every **12 hours**, ensuring efficient resource usage

### Stock Market Predictor | Python, Jupyter, Pandas, Numpy, Scikit-learn, yfinance

- Trained a stock market predictor using **yfinance** to retrieve real-time and historical data, analyzing key indicators such as daily opening and closing prices, trading volume, and intra-day high/low values to forecast market trends
- Cleaned & preprocessed datasets using **Python & Pandas**, boosting predictive model accuracy for machine learning
- Fine-tuned a **Random Forest Classifier** to improve predictions & backtesting performance, achieving **77%** accuracy

### TV Watchlist Tracker | React, Flask, MongoDB, Python, JavaScript

- Built a full-stack application using React & Flask enabling users to search & add shows to list, utilizing the **Jikan API**
- Allowed users to edit watch list by constructing a **REST API** with **CRUD** actions using **Python, Flask and MongoDB**
- Built a dynamic & responsive UI with **React, JavaScript, and TailwindCSS**, enhancing user experience and design

## Technical Skills

**Languages:** Java, Python, HTML, CSS, C, JavaScript, SQL (SQLite)

**Frameworks & Tools:** React, TailwindCSS, Flask, JUnit, Git, Github, Bash, Pandas, NoSQL (MongoDB), Linux (Ubuntu)