Yasin Waili

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Education

Carleton University Ottawa, ON

Bachelor of Computer Science AI/ML Stream Honours, Minor in Statistics *Sept. 2022 – 2027*

GPA: 3.7/4.0

- **Relevant Courses:** Object-Oriented Programming, Data Structures and Algorithms, Web Applications, Database Management Systems, Software Engineering, Intro to Statistical Modelling I & II, Regression Analysis

Projects

RaDoTech Health Simulator | *C++, Qt* March 2025

- Built a C++ desktop application using Qt to simulate a RaDoTech health scanner, including user profile creation, scan initiation, and results navigation.
- Programmed the full scan flow to simulate 24 meridian point readings with input validation, data normalization, and anomaly detection using Ryodoraku-based logic.
- Rendered dynamic bar chart visualizations of health metrics using Qt Charts and displayed generated health recommendations based on scanned data.

Music Streaming Web Application | *JavaScript, Node.js, HTML/CSS, SQLite* December 2024

- Developed a full-stack web application allowing users to create accounts, log in, and manage personalized playlists stored in a SQLite database.
- Implemented a search and playback feature, enabling users to query songs by title, artist, album, or genre, and play songs with album covers and metadata displayed.
- Designed a responsive user interface with JavaScript, HTML, and CSS, providing a seamless and interactive user experience.

Stock Data Analysis Tool | *Python, Flask, HTML/CSS, RESTful APIs* August 2024

- Designed and programmed a stock data analysis tool that used APIs to fetch real-time stock data, allowing users to analyze stocks.
- Set up a Python Flask server to handle web framework, which made use of HTML and CSS to create a user-friendly experience.
- Applied statistical models and machine learning to predict stock prices based on historical data, utilizing Python modules to implement linear regression algorithms, giving users the ability to make decisions based on predicted values.

Work Experience

Teaching Assistant - COMP 2801 Introduction to Robotics September 2025 – Present

Carleton University *Ottawa, ON*

- Assisting students during lectures and labs as they program simulated robots in Java with the Webots 3D simulator, guiding them through challenges in sensing, navigation, and path-planning.
- Marking labs and assignments, providing clear and constructive feedback to support students in building their programming and robotics skills.
- Encouraging collaboration in paired-programming labs, making sure students could work together effectively to solve problems and complete their robotics tasks.

Technical Skills

Languages: Java, Python, C, C++, C#, JavaScript, TypeScript, R, HTML/CSS
Frameworks: Node.js, React, Flask, Pygame, PyTorch, Scikit-learn, RESTful APIs
Developer Tools: SQL, SQLite, Git, GitHub, Linux, Docker, Kubernetes, Qt, Intellij IDEA, SPSS, SAS

Awards & Achievements

Carleton University Dean's Honour List (2024–2025): Awarded to students with a CGPA of 10.0 or higher in recognition of academic excellence.

Carleton University Entrance Scholarship: Awarded to students enrolling into the university with an average of 90%.