

# JUAN BARRERO

## ASPIRING AI SOFTWARE ENGINEERING

86 Laurel Ave Scarborough ON M1K 3J9 | [barrerojuan810@gmail.com](mailto:barrerojuan810@gmail.com) | (1) 437-992-3653

LinkedIn: [www.linkedin.com/in/juan-barrero-66b407290](https://www.linkedin.com/in/juan-barrero-66b407290)

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### SUMMARY

Aspiring AI-Software Engineering student with significant knowledge in C#, java, Python, using this language to build models, data analysis and data visualization tools with knowledge in libraries as pandas, scikit-learn and nltk, as well as in JavaScript and frameworks as React and React Native, and other languages as Bash, HTML, CSS, Git, SQL. Familiar with Linux terminal commands. Highly motivated in the design of webpages, games, forms, and more, with a strong focus on organized work and exceptional problem-solving skills across various languages. Known for attention to detail, effective communication, and strong interpersonal skills, I thrive both independently and in team environments, my passion for computer science motivates me to learn more each day about both the practical and theoretical aspects of each subject, currently residing in Canada with a co-op work permit, ready to contribute and grow in a dynamic field.

### EDUCATION

Centennial College, Toronto, ON September 2023 – present

Software Engineering Technology – Artificial Intelligence (Co-op) Advance Diploma

GPA: 3.847

Courses:	Adv Database Concepts (SQL)	Client-Side Web Dev	Java Programming
	C# programming	Python Programming	Introduction to AI
	Unix/Linux OS	Web Application Development	Linear Alg & Statistics

### PROJECTS

#### JavaScript Blackjack

Blackjack mini game to thoroughly test and demonstrate my proficiency in JavaScript logic, as well as my design skills using CSS and HTML.

- **Project Overview:** This project not only highlights my ability to implement complex algorithms but also showcases my attention to detail in creating an intuitive and visually appealing user interface. Through this mini-game, I aimed to combine functionality with aesthetics, ensuring seamless user experience while reflecting my capabilities in front-end development.

#### Portfolio

In this project, I demonstrated strong skills in both UI and UX design while deepening my knowledge of React by effectively managing components and hooks.

- **Project Overview:** I designed the initial interface in Figma, emphasizing intuitive and visually appealing UX/UI, and developed the project using React and Vite with a component-based architecture for scalability. Leveraging hooks like

useState and useEffect, I implemented dynamic, responsive interactions to enhance the user experience. By prioritizing clean, modular code and state management best practices, this project strengthened my front-end skills and demonstrated my ability to seamlessly integrate design and development.

## Spam Detector

The spam classifier demonstrates a robust approach to detecting spam messages using NLP and machine learning techniques and algorithms

- **Project Overview:** using Multinomial Naïve Bayes classifier, the model efficiently processes the data with preprocessing steps like Count Vectorization and TF-IDF transformer. The model achieved successfully promising results and evidence by the Cross-Validation accuracy and performance on test data.

## TECHNICAL SKILLS AND INTERESTS

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- **Programming Languages:** C#, Java, Python (NumPy, nltk, Scikit-Learn, Pandas), SQL, JavaScript, HTML, CSS, Bash
- **Libraries:** Node, Tailwind, Pandas, Scikit-learn, nltk
- **Frameworks:** React, React Native
- **Tools:** VScode, VSstudio, PyCharm, Eclipse, Google Colab, git, GitHub, Figma
- **Cloud/Databases:** SQL, MongoDB
- **OS:** Linux, Windows, Ubuntu
- **Areas of interest:** Data Scientist, Apps Development, Software development, Back-End Development, Full Stack Development, Front-End Development, Web development
- **Skills:** Problem solving, Collaboration, Time management, Computer science, Client requirements, Teamwork, Communication, Responsiveness, Determine, Creative thinking, Attention to detail.

## ACHIEVEMENTS

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- **2<sup>nd</sup> place Hackathon WIMTACH SRR 2024:** 2<sup>nd</sup> place to collaborate with Scarborough Retirement Center and WIMTACH on the 23<sup>rd</sup>, 24<sup>th</sup> and 25<sup>th</sup> of October 2024 developing a full stack system designed for seniors with cognitive and physical health conditions.
  - **Key Features:** Real-time fall detection with SMS alerts, Daily Reminder for medications, appointments, and meals, integration with smart devices.

## ADDITIONAL INFORMATION

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- **Languages:** English, Spanish