

JUAN BARRERO

ASPIRING SOFTWARE ENGINEERING

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SUMMARY

Aspiring AI-Software Engineering student with significant knowledge in C#, Java, Python, and Kotlin, applying these languages to build neural networks, complex algorithms, and data analysis or visualization tools. Experienced with PySpark, Azure, and PL/SQL for big-data processing, database management, and cloud integration. Skilled in JavaScript, React, React Native, NestJS, HTML, CSS, Tailwind, Bash, Git, and Linux. Highly motivated in designing webpages, mobile apps, and interactive systems, with a strong focus on organized work and exceptional problem-solving across multiple technologies. Known for attention to detail, effective communication, and teamwork, I thrive in both independent and collaborative environments. My passion for computer science drives me to continuously learn and apply both practical and theoretical knowledge. Currently residing in Canada with a co-op work permit, ready to contribute and grow in a dynamic and innovative field.

EDUCATION

Centennial College, Toronto, ON

September 2023 – present

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

GPA: 3.8

Courses:	Adv Database Concepts (SQL)	Big Data Tools for ML	Java Programming
	C# programming	Mobile App Development	Supervised Learning
	Unix/Linux OS	Web Application Development	Neural Networks

PROJECTS

TenaLink

TenaLink is a decentralized system for issuing and validating professional references, certificates and recomentations.

- **Project Overview:** Consensus Hackathon designed to help immigrants and newcomers prove their foreign work experience without relying on banks or centralized authorities. It uses the Stellar blockchain to anchor trust and link people through verified connections. Our unique graph-based model allows endorsements to be trusted based on relationship paths.

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

- **Programming Languages:** C#, Java, Python, SQL, JavaScript , HTML, CSS, Bash
- **Libraries:** Node, Tailwind
- **Frameworks:** React, React Native
- **Tools:** VS Code, Visual Studio, PyCharm, IntelliJ IDEA, Android Studio, Git, GitHub, Figma, DB Browser, DBeaver, Orange, Jupyter Notebook, Postman, Azure Machine Learning Studio, Google Colab, Notion, Canva.
- **Cloud/Databases:** SQL, MongoDB
- **OS:** Linux, Windows, Ubuntu
- **Areas of interest:** Data Scientist, Apps Development, Software development, Back-End Development, Big Data Analytics, Full Stack Development, Front-End Development, UI/UX,
- Cloud Computing, Artificial Intelligence, Machine Learning, Neural Networks

Skills: Problem solving, Collaboration, Time management, Data Structures and Algorithms, Client requirements, Teamwork, Communication, Responsiveness, Determine, Creative thinking, Attention to detail, Adaptability, Innovation, Continuous Learning, Version Control (Git/GitHub)

Achievements

- **2nd place Hackathon WIMTACH SRR 2024:** 2nd place to collaborate with Scarborough Retirement Center and WIMTACH on the 23rd, 24th and 25th 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

- **Languages:** English, Spanish

