Cesar Augusto Vargas Santini

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Professional Experience

City AI (small startup) — *A.I. Software Engineer*   **Toronto, May 2025 – Present**

- Design and implement an **autonomous research system** that crawls the web to identify emerging problems, inefficiencies, and business opportunities.

Tech Stack / Tools: Python, Flask, Bootstrap, Llama 3.1, Replicate API, Gunicorn, Render

Andrew Peller — The Wine Shop — *Sales Representative*   **Toronto, Jun 2022 – Jan 2023**

- Delivered personalized customer service, managed daily operations, and consistently met monthly revenue goals.
- Independently developed a **barcode-based inventory management system** in C++ and Qt to improve stock visibility and reduce manual record-keeping.

Tech Stack / Tools: C++, Qt Framework, SQL

Education

University of Toronto — *Bachelor of Applied Science in Computer Engineering*, **Expected Oct 2025**

Projects

Cesar AI — Interactive Portfolio Assistant   *Flask, Bootstrap, Llama 3.1, Replicate API*
Built an AI-powered web app that answers visitor questions using custom contextual data. Deployed on Render with Gunicorn for scalability and production stability. 🌐 Live Demo — ⬡ GitHub

Multi-User Chat Server with Berkeley Sockets   *C/C++, MySQL*
Designed a multi-threaded chat server and client supporting multiple chat rooms in real time. Implemented authentication and message storage using MySQL. ⬡ GitHub

A Cloudant REST API (To-Do List App)   *Flask, Bootstrap, Cloudant NoSQL*
Created a CRUD web app with RESTful APIs and dynamic pages using Jinja2 templates. Deployed on Render for production use. 🌐 Live Demo — ⬡ GitHub

Power BI Dashboard   *Power BI, Data Visualization*
Built a data visualization dashboard for a transportation company's sales performance. ⬡ GitHub

Barcode Inventory Management System   *C++, Qt Framework*
Developed an inventory management tool with barcode scanning and database integration. ⬡ GitHub

Technical Skills

Languages: Python, C/C++, SQL, MATLAB
AI & Data Tools: Scikit-learn, NumPy, Power BI, PyTorch, TensorFlow
Web & Cloud: Flask, Bootstrap, Jinja2, Render, Gunicorn, IBM Cloudant
Hardware & Systems: Arduino, Atmel, Raspberry Pi, Linux, Unix, Windows
Core Expertise: Full-Stack Development, AI-Powered Systems, Data Visualization, SW Arch

Summary of Qualifications

- Experienced in developing full-stack, cloud-based, and AI-powered web applications integrating LLMs and autonomous agents.
- Proficient in **Python**, **C/C++**, and modern AI frameworks such as **PyTorch**, **TensorFlow**, and **Scikit-learn**.
- Strong understanding of **Natural Language Processing (NLP)** concepts, having studied *"NLP with Transformers"*.
- Skilled in **data-driven development**, integrating analytics dashboards, REST APIs, and scalable web architectures using **Flask**, **Bootstrap**, and **Cloudant**.
- Passionate about advancing **AI research and applications**, particularly in NLP, autonomous systems, and software intelligence.

- Native **Spanish** speaker with professional English proficiency.