


# Simon Amable

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## EDUCATION

### Bachelor of Computer Science: Artificial Intelligence and Machine Learning

April 2027

Carleton University

Ottawa, ON

- **CGPA** : 10.12/12.0 ( A- )
- **Relevant Courses** : Data Structures and Algorithms, Object-Oriented Software Engineering, Human-Computer Interaction, Principles of Computer Networking, Database Management Systems, and Operating Systems.

## EXPERIENCE

### Data Engineer

January 2025 – Present

Transport Canada (Part-Time)

Ottawa, ON

### Data Engineer

May 2024 – December 2024

Transport Canada, Enterprise Business Intelligence and Data Analytics (Ebida)

Ottawa, ON

- **Streamlined ticketing workflows:** Automated the process of creating tasks on Azure DevOps by integrating a event listener in the client request systems, saving an estimated 20 hours per week for the DevOps team.
- **Developed scalable ETL pipelines:** Designed and deployed over 50 ETL pipelines within the Microsoft Azure ecosystem, facilitating seamless data ingestion from diverse online sources including web scraping, FTP servers, SQL servers, MS Power BI API, and other RESTful APIs.
- **Client-focused data transformation:** Collaborated with clients to design ETL pipelines that transformed raw data into clean tabular formats, leveraging Spark SQL on Databricks to support advanced data analysis.

### Full-Stack Developer

August 2024 – January 2025

Seeking Remedy

Ottawa, ON

- **Designed user Interface:** Developed the UI/UX for a globally-reaching WooCommerce site, focusing on responsive design and interactive elements to engage over 10,000 visitors.
- **Implemented secure E-commerce Website:** Implemented WooCommerce and WordPress APIs to streamline product management for store owners and ensure safe transactions through an external payment gateway.
- [Link to Website](#)

## PROJECTS

### Full Stack Job Site | *Next.js, Tailwind CSS, Python, Selenium, MongoDB, Jenkins, Vercel*

August 2024

- Developed a fully responsive job site to providing access to over 1,000 Canadian internships, offering a cost-free alternative to school-run co-op sites for **over 100 daily users**.
- Automated data collection by writing Python web scraping scripts scheduled via CRON jobs, scraping multiple job sites, and storing the data in MongoDB, achieving 99.5% uptime for real-time job availability.
- [Link To Website](#)

### Automated Job Applications | *Python, Selenium, python-docx*

January 2024

- Completely automated my job application process on the Carleton Co-op site at all steps separated into several scripts mainly using Python and Selenium, combined into a Jenkins pipeline with a daily CRON trigger.
- Created Python scripts to automate extracting relevant job data, creating custom cover letters, and finally submitting applications, successfully customizing and completing 74 applications in 29 minutes.
- Successfully landed my first internship using web automation to apply to the job.

### Document search RAG app with GPT4 | *Python, Jupyter Notebook, LangChain, OPENAI API*

April 2023

- Developed A RAG app using GPT4.0 in Jupyter notebooks, adding personal academic resources to a vector database as embeddings, to then be retrieved and queried semantically using the LangChain Framework, achieving a recorded 17% improvement against the base model in topic related testing.

## SKILLS

**Programming Languages** : Python, BASH, C, C++, Java, JavaScript, HTML, CSS. **Databases** : Relational (PostgreSQL, Spark), Document (MongoDB, Firebase), Vector (Pinecone, Milvus, Qdrant).

**Development Tools** : Linux CLI, Microsoft Suite, Figma, Agile Development, Jira.

**AI/ML** : LLMs, Hugging face NLP, TensorFlow, Fine-tuning, APIs (Replicate.ai, Stability AI, OPENAI etc..).

**Technologies** : Selenium, BeautifulSoup, Svelte, Docker, Git, GitHub, Jenkins, DataBricks, DataBricks, Azure Data Factory, Google Cloud Platform (GCP), Amazon Web Services (AWS), pgvector, React, Next.js.