SIMON AMABLE

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SUMMARY

Highly motivated Computer Science student with a strong foundation in C/C++, Python, and systems-level programming, eager to apply expertise in embedded Linux environments. Proven ability to debug complex systems, optimize performance, and collaborate effectively in fast-paced development cycles. Passionate about contributing to innovative solutions and enhancing operational efficiency for cloud-based platforms.

EDUCATION

Carleton University *Ottawa, ON*

Bachelor of Computer Science in Artificial Intelligence and Machine Learning *April 2027*

EXPERIENCE

Software Engineer *January 2025 - Present*

Transport Canada *Ottawa, ON*

- Optimized Python libraries for security vulnerability scanning in Databricks, utilizing the Open Source Vulnerability (OSV) database for rapid classification and alerting.
- Automated Azure DevOps ticket creation by developing Microsoft Power Automate Flows, leveraging email-based events to achieve a weekly saving of approximately 20 hours for the DevOps Team.

Data Engineer *May 2024 - December 2024*

Transport Canada, Enterprise Business Intelligence and Data Analytics (EBIDA) *Ottawa, ON*

- Engineered robust ETL pipelines using Databricks and Azure Data Factory, facilitating data ingestion from diverse sources including web scraping, sFTP, SQL, and REST APIs.
- Collaborated with stakeholders to design and implement data transformations via Spark SQL on Databricks, converting large GB-scale raw datasets into clean, tabular formats for upstream analytics.

Full-Stack E-Commerce Developer/Co-Founder *August 2024 - January 2025*

Seeking Remedy *Remote*

- Led UI/UX design for a global WooCommerce e-commerce site, implementing mobile-first responsive web design and interactive animations to engage over 10,000 visitors.
- Integrated WooCommerce and WordPress APIs to streamline product management and secure transactions via external payment gateways, enhancing store operational efficiency.

PROJECTS

EzApply AI | *Next.js, Vercel, OpenAI* *May 2024*

- Developed a serverless Next.js application on Vercel for instant, AI-generated, ATS-friendly cover letters with live PDF previews.
- Implemented structured-output text extraction using OpenAI to convert job postings into JSON profiles, enabling accurate and personalized cover letter generation.
- Customized AI context and formatting to generate job-specific cover letters, demonstrating advanced LLM integration and application development.

AI-Powered Job Automation | *Python, Selenium, Gemini, LangChain* *March 2024*

- Engineered a Python-based automation script using Selenium to streamline the university job application process.
- Integrated Gemini with the LangChain LLM framework to fully automate job application submissions, significantly enhancing efficiency.

Document Search RAG App with GPT-4 | *GPT-4, LangChain, Jupyter, Vector Databases* *February 2024*

- Developed a Retrieval Augmented Generation (RAG) application with GPT-4 in Jupyter for enhanced document search and comprehension.
- Utilized LangChain to chunk and embed external documents into a vector database for semantic retrieval, improving test accuracy by approximately 17%.

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript/TypeScript, SQL, HTML, CSS, Java, BASH

Frameworks: React, Next.js, Flask

Tools: Linux, Git, Docker, PostgreSQL, MongoDB, Azure, AWS, GCP, Databricks, Azure Data Factory, Jira, Selenium, Figma, LLMs, APIs

Soft Skills: Problem-solving, Communication, Teamwork, Agile Methodologies, Eagerness to Learn