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# Adam Geenen

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## EDUCATION

### McGill University (3.82 GPA)

*Bachelor of Software Engineering*

**Montreal, Canada**

*September 2020 - December 2024*

**Awards:** Excellence scholarship for Software Engineering, Member of Golden Key Honor Society (top 15% of program)

**Relevant Coursework:** Artificial Intelligence, Machine Learning, Algorithm Design, **Algorithms & Data Structures**

**Clubs:** McGill Artificial Intelligence Society, TAMID McGill, McGill Product Management, Exchange program in Australia

## EMPLOYMENT HISTORY

### Software Engineer Intern, Coveo

January 2024 - April 2024

- Collaborated with clients on the Professional Services team to analyze their specific software needs and develop tailored solutions using TypeScript, JavaScript, and Python for both front-end and back-end components.
- Demonstrated effective communication skills by maintaining regular contact with clients, ensuring project requirements were met, and providing ongoing support for custom software solutions.

### Software Engineer Intern, Ernst & Young

May 2023 - August 2023

- Designed and built a mobile app for a prestigious military group that utilized a Large Language Model (LLM) to address user inquiries using LangChain, Flutter, and Azure, resulting in contract negotiations valued at \$800,000.
- Developed the user interface and checkout process for a global entertainment industry leader's website using React and TypeScript, resulting in a 12% increase in user checkout rates.
- Implemented an LLM to operate locally, enabling users to upload PDF documents for comprehensive inquiries without the need for an internet connection using LangChain, Python, and Flask.

### Data Science & Engineering Intern, HSBC

May 2022 - September 2022

- Established an advanced pipeline for crafting synthetic time-series financial data via generative adversarial networks (GANs) using Python, Pandas, and NumPy, achieving a synthetic data quality score of 91.
- Utilized machine learning and data visualization techniques to analyze a dataset spanning hundreds of thousands of hours of server data using TensorFlow, Keras, and Matplotlib, resulting in a 28% reduction in carbon emissions.

## PROJECTS

### Detect Language Model Generated Data

Python, PyTorch

- Researching advanced techniques for distinguishing between human-written and machine-generated text using machine learning (ML) and natural language processing (NLP), in the context of Large Language Models (LLMs).
- Under the guidance of McGill professor Chengzhi Mao, who brings extensive research experience from industry giants like Google, Microsoft, and Waymo.

### McGill Chatbot

Python, LangChain, OpenAI, BeautifulSoup, FAISS

- Developed a comprehensive chatbot leveraging web scraping techniques to extract and compile up-to-date information from the official McGill University website.
- Integrated a Large Language Model (LLM) with conversational memory, enabling the chatbot to provide accurate answers about McGill University while engaging students in dynamic, coherent conversations.

### Book Recommendation Website

React, Node.js, MongoDB

- Designed and implemented a dynamic full-stack website that employs personalized algorithms to offer book recommendations, leveraging users' historical reading patterns and ratings.

## EXTRACURRICULAR EXPERIENCE

### TAMID McGill

**Montreal, Canada**

Director of Technology

Fall 2022 - Fall 2023

- Connected with company founders and determined product requirements
- Organized meetings with industry professionals to improve the team's technical skills
- Conducted weekly presentations with company founders and stakeholders to provide consultation and project progress updates

## LANGUAGES, TECHNOLOGIES, TOOLS & INTERESTS

**Languages & Technologies:** Python, Java, React, LangChain, Flutter, Node.js, Pandas, TypeScript, JavaScript, NumPy, CSS, HTML, Matplotlib, Seaborn, SQL, OCaml, Azure, AWS, Flask, C, Scikit-learn, TensorFlow, PyTorch, Django, MongoDB, Linux, ARMv7, Keras

**Spoken Languages:** English, French, Hebrew

**Interests:** Large Language Models (LLM), AI, Data Science, Basketball, Hockey, Cycling, Snowboarding, Tennis, Swimming, Poker, Chess