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# Adam Geenen

Canadian & Dutch citizenship

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## EDUCATION

### McGill University (3.82 GPA)

*Bachelor of Software Engineering*

**Montréal, Canada**

*Fall 2020 - May 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

## EMPLOYMENT HISTORY

### Software Engineering Intern, Ernst & Young

May 2023 - August 2023

- Independently developed a mobile app that utilized a Large Language Model (LLM) to promptly address user inquiries for a prestigious military group, resulting in contract negotiations valued at \$800,000.
- Pioneered the implementation of a website which seamlessly integrates a LLM to operate locally, enabling users to upload PDF documents for comprehensive inquiries without the need of an internet connection.
- Worked with **Python, LangChain, Flutter**, React, TypeScript, 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), 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, resulting in a 22% reduction in carbon emissions.
- Worked with **Python, NumPy, Pandas**, Matplotlib, Seaborn, TensorFlow, Keras

## EXTRACURRICULAR EXPERIENCE

### TAMID McGill

**Montréal, Canada**

Director of Technology

Fall 2022 - Ongoing

- 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

Project Manager

Winter 2022

- Managed a team of 7 software engineering students in developing a customer portal for a medical startup
- Scheduled project development timeline

Software Engineer

Fall 2020 - Fall 2021

- Developed a website for PennyWell, an Israeli startup that connects charities and volunteers, using Django framework
- Designed the UI and UX of the mobile app for NoHouse, a daily fantasy sports startup, using Flutter

## PROJECTS

### 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.

### March Madness Predictor

Python, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn

- Applied a Random Forest Regressor model to the reformatted and engineered data to generate accurate predictions for the outcome of the male and female NCAA March Madness competition.
- Conducted model selection and tuning exercises, considering various algorithms and their parameters optimizing performance and predictive accuracy.

### 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.

## LANGUAGES, TECHNOLOGIES, TOOLS & INTERESTS

**Languages & Technologies:** Python, Java, React, LangChain, Flutter, Node.js, TypeScript, JavaScript, OCaml, SQL, Shell, C, CSS, HTML, MongoDB, Flask, Django, Linux

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

**Interests:** AI, Data Science, Basketball, Hockey, Cycling, Snowboarding, Tennis, Swimming, Poker, Chess