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EDUCATION

McGill University

Current GPA: 4.0/4.0

B.A. Computer Science Major, Statistics Minor

Aug 2024 - Dec 2027

- **Relevant courses:** Discrete Structures, Algorithms and Data Structures, Software Systems, Computer Systems, Principles of Statistics I & II, Linear Algebra, Calculus I.
- **Honors:** Hugh Brock Scholarship, Qualified for ICPC North America 2024
- **Extracurriculars:** ColorStack, Competitive Programming at McGill, McGill Students' Trading Society, CodeJam.

EXPERIENCE

Baamtu Technologies

Dakar, Senegal

Data Science Intern

Apr 2022

- Implemented data exploration techniques using Jupyter Notebook, NumPy, and Scikit-Learn to analyze text corpus similarities, resulting in a **30%** improvement in text classification accuracy.
- Developed text vectorization and language classification algorithms in Python, enabling accurate language detection for a medical chatbot across local languages.

PROJECTS

School's Print Management Service | *Python (Flask), HTML/CSS, Javascript, Print.js, PostgreSQL* *Jun 2024*

- Engineered a full-stack web application for **40+** teachers and staff, streamlining print job management and reducing print-related administrative tasks by **10** hours per week.
- Leveraged Print.js API to create an intuitive print dialog interface, improving user experience and reducing print setup time by **70%** for complex print jobs.
- Conducted user interviews with 4 teachers and staff, implementing 2 new features including a paper quota tracker, resulting in less paper waste.
- Optimized asynchronous operations in the queue system, enabling simultaneous processing of multiple print jobs.

Research in Applied Mathematics | *LaTeX, Pandas, Matplotlib* *Aug 2023*

- Conducted comprehensive analysis of search algorithms for Connect-4, authoring a research paper that provided insights into optimal AI strategies for board game applications.
- Implemented and tested 3 variations of the Minimax algorithm across 4 different grid sizes, identifying optimal configurations that reduced computational time.

OrientationSN | *Python, Jupyter Notebook, Streamlit, NumPy, Scikit-Learn, Pandas* *Aug 2022*

- Developed an API to find and filter more than **80** universities and programs in Senegal based on semantic indexing using TF-IDF (term frequency-inverse document frequency).
- Scraped and sanitized more than **300** program descriptions, implementing a similarity algorithm that achieved 82% accuracy in program categorization.
- Designed and implemented a responsive web interface featuring real-time search and interactive visualizations, showcasing the API's capabilities and securing first place in the school hackathon.

SKILLS

Programming languages: Python, Java, C, JavaScript/TypeScript, HTML/CSS, LaTeX

Frameworks and Tools: Git, React, Node.js, Flask, FastAPI, Bootstrap, PostgreSQL, Docker, Postman

Libraries: Pandas, NumPy, Matplotlib, SQLAlchemy

Languages: English (Native), French (Native)