

# Abdoul Wahab Toure

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## EDUCATION

### McGill University

Current GPA: N/A

*B.A. Computer Science Major, Statistics Minor*

*Aug 2024 - Dec 2027*

- **Relevant courses:** Introduction to Computer Science, Introduction to Software Systems, Principles of Statistics I, Linear Algebra and Geometry.
- **Honors:** Hugh Brock Scholarship.
- **Extracurricular:** Competitive Programming at McGill, McGill Students' Trading Society.

### Le Collège Bilingue

GPA: 4.0/4.0

*International Baccalaureate*

*May 2024*

- **Honors:** Modal Student, Valedictorian.
- **Extracurricular:** Chess Club, Entrepreneurship Club, Sustainable Development Club.

## 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 print 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, JavaScript/TypeScript, HTML/CSS, LaTeX

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

**Libraries:** Pandas, NumPy, Matplotlib, SQLAlchemy

**Languages:** English (Native), French (Native)