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*

- **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*

- **Courses**: Mathematics AA HL, Computer Science HL, French B HL, Physics SL, English Lang&Lit SL, Economics SL.
- **Honors**: Modal Student, Valedictorian.
- **Extracurricular**: Chess Club, Entrepreneurship Club, Sustainable Development Club.

SKILLS

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

PROJECTS

Research in Applied Mathematics ↗ | *LaTeX, Pandas, Matplotlib* — *Aug 2022*

- Authored a research paper in evaluating the use of different type of search algorithms to play Connect-4.
- Experimented with variations of the Minimax algorithm on different grid sizes to assess its performance.
- Evaluated the use of some heurisitcs like Alpha-Beta pruning to see how they would affect search speed and win rate.

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

- Developed a full-stack web application for over **40** teachers and staff members at my high school to manage print jobs, queueing, and automated quota management.
- Experimented with Print.js API to parse file and print settings from print jobs into a print dialog box.
- Collaborated with teachers and staff members to get feedback and suggested features.
- Solved problems relating to asynchronous tasks.

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 cleaned a large database of university and program descriptions to calculate similarities between them and categorize them.
- Created a web interface to show to judges and won first prize at my high school's hackathon.

EXPERIENCE

Baamtu Technologies ↗ — Dakar, Senegal
Software Engineering Intern — *Apr 2022*

- Explored data exploration techniques using Jupyter Notebook to find similarities between text corpuses using TF-IDF and cosine similarity with NumPy and Scikit-Learn.
- Wrote Python scripts to vectorize text corpuses and used basic text classification for language identification for a medical assitant chatbot.
- Gained familiarity with the company's ERP and CRM tools, enabling more efficient data management and customer interaction processes.