






# Abdoul Wahab Toure

 [github.com/abd2re](https://github.com/abd2re)
 [abd2re.github.io](https://abd2re.github.io)
 [linkedin.com/in/abd2re](https://linkedin.com/in/abd2re)
 [ab.toure@mail.mcgill.ca](mailto:ab.toure@mail.mcgill.ca)
 +1-418-573-8817

## EDUCATION

### McGill University

Current GPA: N/A

*B.A. Software Engineering 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.

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

## SKILLS

**Languages:** Python, Java, JavaScript/TypeScript, HTML/CSS, L<sup>A</sup>T<sub>E</sub>X

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

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

## PROJECTS

### Research in Applied Mathematics | L<sup>A</sup>T<sub>E</sub>X, 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 heuristics 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's to parse data from print job to get file and print settings in 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

*Data Science 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 assistant chatbot.
- Familiarized myself with company's Enterprise Resource Planning (ERP) and Customer Relationship Management (CRM) tools.