

ELHADJI AMADOU TOURÉ

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EDUCATION

Carleton College, Northfield, MN *September 2021 – June 2025*
Bachelor of Arts: Major & Minor: Computer Science; Biochemistry
Coursework: Artificial Life and Digital Evolution; Data Structures; Human-Computer Interaction; Machine Learning; Algorithms; Computer Security; Data Visualization; Programming Languages. **Senior Thesis** in [Computer Security](#).
Aquincum Institute of Technology (BME) Study Abroad, Budapest, Hungary *August 2023 – December 2023*
Coursework: Computational Biology & Medicine; Computing Theory; Scalable Systems & Development Processes. UX Design. **GPA: 5.00/5.00**

EXPERIENCE

Baltimore Health Analytics, MN, Hybrid *March 2025 - Present*
Data Scientist, Minneapolis, MN, Hybrid *August 2025 - Present*

- Delivering forecasting models (Holt-Winters, SARIMAX) that are driving a 6% boost in client Star performance and secured \$80K in annualized revenue through renewals and upsells.
- Defining KPIs linking predictive insights to measurable ROI, strengthening client adoption of analytics tools.
- Alongside prior responsibilities, scaling internal platforms (70M+ rows) with React, Python (Flask), SQL, Snowflake, Teradata, and Apache Echarts.

Associate Data Scientist, Minneapolis, MN, Hybrid *June 2025 – August 2025*

- Built production-ready forecasting pipelines that informed client strategy and generated \$70K in new revenue through a contract renewal.
- Alongside prior responsibilities, formalized Git workflows (through Bitbucket) and Jira sprint planning, improving reliability and delivery speed.

Data Science Intern, Northfield, MN, Hybrid *March 2025 – June 2025*

- Developed machine learning models to predict CMS Star Ratings across 800K+ rows, accelerating performance evaluation.
- Co-led client-facing dashboard development and spearheaded full website redesign to modernize UI/UX and responsiveness.
- Quickly mastered Star rating methodology, surfacing new opportunities for data accessibility and decision support.
- Co-led startup's full-stack development of internal analytics tools for Plan C and Plan D clients, using React, Python (Flask), SQL, Teradata, and Apache ECharts for rich interactive data visualizations.

Harvard Medical School / Mass General Brigham, Boston, MA *June 2024 – June 2025*
Medical Practice Evaluation Center Intern

- Applied unsupervised learning (clustering) techniques using Python, R, and Scikit-learn to analyze cardiometabolic disease data from the Bangladesh STEP survey, working with a dataset of over 8,000 data points.
- Conducted high-impact analyses identifying correlations between living conditions, education levels, and specific comorbidities, as well as correlations between different comorbidities.
- Delivered a preliminary presentation to policymakers, where clusters of trends were assigned to specific regions, guiding resource allocation strategies in low- and middle-income counties.

Perception Laboratory at Carleton College, Northfield, MN *January 2023 – June 2025*
Research Assistant

- Conducted experiments on the human brain's speech perception, accuracy, and identifiability in challenging listening conditions, particularly in background noise, using R for data analysis.
- Quantified speech perception accuracy by developing a statistical model that measured recognition rates of spoken words in varying noise environments, revealing that recognition accuracy dropped by 20% as background noise intensity doubled.
- Contributed to the enhancement of cognitive models by validating a new auditory processing theory, improving the predictive accuracy of speech perception models by 15%.

Mayo Clinic, Rochester, MN *June 2023 – May 2024*
Medical Oncology Intern, Department of Otolaryngology-Head and Neck Surgery

- Developed and maintaining a [web application](#) for patient prognosis using Flutter and Dart (myelomarisk.com), allowing patients and physicians to input lab results and receive prognosis predictions, including cancer survival rates and life expectancy, based on Mayo Clinic research.
- Rapidly learned Flutter and Dart within three weeks to build the web application, which has since been adopted by physicians, enhancing trust in prognosis tools and increasing patient-physician interaction time.

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Project Friendship, Northfield, MN

App Developer / Computer Programmer Student Worker

February 2023 – June 2023

- Implemented key features in the organization's mobile application, including mass mail sending, an emergency alert button for missing mentees, and a messaging system between mentors and mentees' parents.
- Utilized Docker (Go) and C++ to streamline the development process, enhancing communication among mentors, improving event awareness, and ensuring the safety of mentees through a robust alert system.

LEADERSHIP EXPERIENCE

Thrive Scholars, Scholar & Ambassador

April 2020 – Present

- Selected as one of 90 out of 2400 applicants to participate in a 6-year college access, college success, & professional development program for high achieving, underrepresented, low-income first-generation students.

Carleton College, Northfield, MN

January 2023 – June 2025

Student Departmental Adviser ~ Computer Science Department

September 2024 – June 2025

- Selected as a Student Departmental Adviser for the Computer Science department, providing academic guidance and support to peers.
- Disseminate essential information regarding courses, college requirements, and registration procedures to enhance student preparedness and success.
- Organize and coordinate departmental events to foster a solid academic and social community.
- Enhance the academic experience and community engagement within the Computer Science department through strategic initiatives and support.

Introduction to Computer Science, Algorithms, & Theory of Computing T.A.

January 2023 – March 2025

- Coached and mentored students in introductory Computer Science and algorithms courses.
- Held teaching assistant sessions where fundamental computer science concepts and complexity were discussed.
- Taught students the fundamentals of computability and complexity in Computer Science.
- Mentored students through exam preparation.

SKILLS, LANGUAGES, & AWARDS

Skills: Dart; Python; Java; C++; C; Git; R; Power BI; Figma; Web Design; SQL; Penetration Testing / Red Team, Blue Team; React, Node.js, Swift, Kotlin

Languages: Native Trilingual Proficiency (English, French, Wolof)

Awards: Second Place @ Carleton College Impact Challenge Fellowship, \$5K prize for Technology Startup; Roy F. Grow Fellowship for a Significant Student Experience in Asia; QuestBridge National College Match Scholar; Carleton College David Pollatsek '96 Prize in Computer Science; Carleton College David John Field Prize