

Junior Tamekem Tadiffo

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EDUCATION

University at Buffalo, The State University of New York

Expected Graduation: May 2027

Bachelor of Science in Computer Science

GPA: 3.902/4

- Relevant coursework: Software Engineering concepts, Systems Programming, Algorithms and Complexity, Data Structures, Computer Science I & II (Object-Oriented Programming, Unit Testing, etc.), Discrete Structures, Linear Algebra, Probability theory and Calculus I & II.
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SKILLS & TOOLS

Languages: JavaScript, PHP, Python, Java, C, HTML & CSS, JCL, COBOL.

Tools: React, MySQL, Postman, cURL, Netlify, XAMPP, Figma, Streamlit, NumPy, Scikit-Learn, Pandas.

WORK EXPERIENCE

AI Research Assistant - Canon Stroke and Vascular Research Center, Buffalo

May 2025 – Present

- Designing and testing deep/machine learning models on real surgical imaging datasets using PyTorch and Keras to support intraoperative guidance during neurosurgical procedures.
- Implementing image preprocessing, augmentation (rotation, normalization, noise injection), and convolutional neural network training to improve classification of vascular structures.
- Improving model accuracy through data handling, hyperparameter tuning, cross-validation, and performance evaluation with confusion matrices, ROC curves... using scikit-learn and SciPy.

IBM Z Student Ambassador & Secretary, IBM Z Club

April 2025 – Present

- Lead workshops on JCL, COBOL, Linux/UNIX, IBM mainframes, and database systems.
- Organized events, coordinated e-board meetings and collaborated with fellow ambassadors to promote the IBM Z Xplore platform and encourage peers to participate in technical challenges.
- Gained hands-on experience with IBM mainframe technologies including z/OS and its ecosystem.
- Earned digital badges (IBM Z Explore Advanced badge) for completing technical challenges and showcased knowledge through public speaking at IBM Z events.

Software Development Intern, Expert3dev Sarl, Cameroon

July 2022 – August 2022

- Gained hands-on experience in collaborative development, utilizing Git and GitHub for version control, code sharing, and teamwork on collective projects.
 - Built a basic inventory management system using Visual Basic and SQL for end of internship project.
 - Sharpened critical thinking and problem-solving skills through mentorship and real-world challenges.
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PROJECTS

DishOut – Student E-Commerce Web Application

August 2025 – Present

- Designed and deployed a full-stack, campus-focused e-commerce platform enabling students to buy and sell appliances, featuring shopping carts, chat inbox, payment system, and user authentication.
- Developed a responsive, mobile-friendly frontend using JavaScript, HTML, CSS, and Figma for prototyping.
- Conducted API testing with cURL, ensuring robust and secure data flow between client and server.
- Applied Agile methodologies, crafted user stories, and maintained version control with GitHub to harmonize collaboration and iterative development with my 3 teammates.

My NBA Data Analytics Web Application

July 2024 – Present

- Built and deployed a multi-page Streamlit app with dynamic navigation and routing, featuring 10+ interactive dashboards analyzing NBA player and team statistics
 - Trained a predictive model to forecast the excitement level on a scale from 0-1 of upcoming NBA games using data scraped from multiple NBA media sources and the NBA API.
 - Developed advanced data visualizations (e.g., scoring splits, player matchup stats, team pace) using Pandas, Matplotlib, Seaborn, and Statsmodels.
 - Implemented Pythagorean Expectation and Prediction models to estimate team performance based on point differential
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AWARDS & INVOLVEMENT

Member: Basketball Club, SUNY Startup School, National Society of Black Engineers, Data Analytics Club.

Dean's List Honors (x3)