Momodou Lamin Barrow

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EDUCATION

The University of Tulsa, Tulsa, OK
PhD Computer Science
GPA: 3.2   Expected May 2029
Dr.D.Y. Patil Vidyapeeth, Pune, India
MBA(Artificial Intelligence and Machine Learning Management   Feb 2023 to Sep 2024.
University of The Gambia, Kanifing, The Gambia   Jan, 2016 to Dec, 2019
BSc Computer Science (Magna Cum Laude)
GPA: 3.833
Management Development Institute, Kanifing, The Gambia   Jan, 2015 to Aug, 2015
Certificate Cisco Certified Network Associate

Completed Coursework: Computer Security, Foundation in Cyber, Computer Networks, Artificial intelligence, Intrusion Detection System, Research Method in cyber, Analysis of Algorithm, and Penetration Testing
Ongoing Coursework: Quantum and Science Computing and System Security and Cryptography

RELEVANT WORK EXPERIENCE

The University of Tulsa, Tulsa, OK   Aug, 2024 to Dec 2025
Research Assistant
University of The Gambia, Kanifing, The Gambia   Feb, 2023 to Dec, 2023
Graduate Assistant
Sbec International High School, Salagi, The Gambia   Sep, 2021 to Jan, 2023
ICT/Computer Science Teacher
Gambia Civil Aviation Authority, Banjul, The Gambia   July, 2014 to Jan, 2024
Air Traffic Control Officer

SPECIAL SKILLS

Technical and Industry-Specific Skills

- **Programming and Software Proficiency**: Skilled in R, Java, Python, C, Windows, Linux, Mac and the Microsoft Office Suite.
- **Data Analysis Tools**: Proficient in SQL, Excel, Tableau, Power BI, and Python libraries (Pandas, NumPy, Matplotlib)
- **Cybersecurity and Data Analysis**: Knowledgeable in data analysis and cybersecurity principles, with experience in database management.
- **Air Traffic and Safety Management**: Proficient in safety protocols and air traffic control procedures, ensuring adherence to industry standards.
- **Teaching and Assessment**: Experienced in instructional methods and assessing student performance, fostering an effective learning environment.
- **Additional Skills**: Proficient in Git/GitHub, Docker, virtualization, basic network administration, and experienced with IDEs (Eclipse, Visual Studio) and tools (Jupyter Notebook, MATLAB).

Interpersonal and Organizational Skills

- **Leadership and Teamwork**: Demonstrated ability to lead teams and collaborate effectively, combining strategic thinking and decision-making.
- **Problem Solving and Time Management**: Skilled in managing time and prioritizing tasks, with a strong focus on resolving challenges efficiently.
- **Communication**: Strong written and verbal communication skills, with the ability to engage and connect with diverse audiences.

SPECIAL PROJECTS
- **Electric Power Grid Cybersecurity Testbed**: Collaborated as a student researcher on a testbed platform under Dr. Papa at the University of Tulsa to secure electric power substations against cyber threats, focusing on protecting automated distribution substations with networked digital controllers.
- Reliable **UDP File Transfer System**: Developed Java classes implementing ARQ strategies (stop-and-wait, concurrent channels, and sliding window) to ensure dependable file transfer over UDP, addressing the challenges of reliable delivery on unreliable networks as part of graduate research.
- Air **Traffic Database Management System**: Designed a custom DBMS for Banjul International Airport's ATC center to manage real-time air traffic data, enhancing operational efficiency through streamlined data entry, retrieval, and reporting capabilities.

ACHIEVEMENTS & AWARDS

Certifications and Awards

- Air Traffic Controller License Holder (Aerodrome and Approach)
- Outstanding ICT Student Award, ITCA (2019)
- UTG ITCA Certificate of Achievement, Secretary, 7th Executives (2019)
- Certificate of Participation, UTG Nationwide Tour (2019)
- Best Student Peer Peace Ambassador (2006)
- Ministry of Higher Education Science and Research Scholarship Awardee (2016)

Professional Development and Participation

- Participant, 13th International Conference on Research in Computer Science and Related Applications (2023)
- Participant, Digital ID and Interoperability in Africa Workshop (2023)

HOBBIES and INTERESTS

Networking, blogging, data analysis, competitive programming, open-source contributions, continuous learning, reading technical journals, teaching, mentoring, traveling, and soccer.