AFTAB ALAM MASJIDI

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SUMMARY

Stamps Scholar and senior Computer Science major (Cybersecurity concentration) passionate about integrating Artificial Intelligence and Cybersecurity for predictive threat defense. Experienced in AI-driven system design, full-stack development, and technical leadership through Barry University's AI Center & DX Lab. Committed to research that transforms data into secure, intelligent, and human-centered solutions.

EDUCATION

Barry University — B.S. Computer Science, **Specialization:** Cybersecurity
Expected Graduation: May 2026 | GPA: 4.0 / 4.0
Honors: Stamps Scholar (Full-Ride, <1% Acceptance), President's List (5x), Dean's List, Outstanding Performance Award

Applied Lab Work:
Software Engineering Project Lab

- Designed a full-stack secure web portal using Java, JSP, and MySQL; implemented RBAC, SHA-256 hashing, and audit logging.
- Built project management tools supporting version control, scalability, and user access layers via Apache Tomcat.
- Developed a Stopwatch microprocessor system in Computer Hardware Lab integrating digital logic and assembly concepts.

Digital Forensics Analysis (FTK Imager & WinHex):

- Reconstructed NTFS/MFT artifacts to simulate professional forensic investigations.

Network Vulnerability Assessment (Wireshark & Nmap):

- Conducted audits and scans to identify critical network and protocol vulnerabilities.

Embedded Stopwatch System (C & Microcontroller):

- Engineered a timing circuit to measure microcontroller latency and interrupt precision.

RESEARCH EXPERIENCE

Research — Stock Market Prediction Using Machine Learning and Deep Learning
Under Prof. James Haralambides, Barry University

- Developed hybrid forecasting models integrating Ridge Regression, Random Forest, XGBoost, LSTM, and CNN for S&P 500, Dow Jones, and Google data (2013–2025).
- Integrated sentiment analysis and technical indicators to enhance model interpretability and volatility tracking.
- Evaluated models using MSE, R^2, and drift-awareness; Transformer/LSTM architectures exhibited strongest predictive stability.

Tech Stack: Python, TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib
Next Phase: Implement attention-based interpretability for cybersecurity threat prediction models.

PROFESSIONAL EXPERIENCE

AI Center Coordinator — Barry University (Sept 2025–Present)
- Supported AI and machine learning initiatives, supervised student research and deployment projects.
- Conducted workshops, built training modules, and deployed AI prototypes.

DX Lab Consultant (Internship) — Barry University (Sept 2025–Present)
- Led software project management and client-based consulting demos.
- Designed and maintained AI/MLOps prototypes, integrated ethical AI pipelines

Software Engineer Intern — BeStudios (Remote) (May–Aug 2024)
- Built and optimized Java-based backend modules; improved runtime performance. and scalability by25%.
- Collaborated with teams to implement API endpoints and test automation suites.

Student Ambassador — Barry University (Jan 2023– Sep, 2025)
- Represented Barry University in recruitment events; guided campus tours and mentored first-year scholars.
- Recognized with Best Employee Award for leadership and innovation.

INDEPENDENT PROJECTS

1. **AftabOS - Research Portfolio (React/Vite):** Built a live showcase for AI × Cybersecurity research integrating interactive analytics and publication tracking.
2. **WriteHuman - AI Writing Assistant (OpenAI API):** Engineered an ethical language-refinement system that enhances clarity while preserving authentic human tone.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, SQL, HTML/CSS, PHP
Frameworks/Libraries: React.js, Node.js, Express, Flask, TensorFlow, PyTorch, Scikit-learn
Cybersecurity Tools: Wireshark, Nmap, Burp Suite, FTK Imager, WinHex, Metasploit
Developer Tools: Git, Eclipse, Linux, Apache Tomcat, Jupyter Notebook, MongoDB, Vite
Specialties: Machine Learning, Predictive Analytics, Explainable AI (XAI), MLOps, Threat Modeling, Network Security, Full-Stack Development, Prompt Engineering

LEADERSHIP & SERVICE

- **Founder & President** - *AI Society***:** Organized workshops, hackathons, and AI projects.
- **President** - **Muslim Students Association:** Led interfaith programs promoting inclusion.
- **Founder** - **Sunday Discoveries:** Mentored Afghan refugee youth in technology and literacy.
- **Co-Managing Analyst** - **Student Managed Investment Fund:** Conducted valuation and analysis.
- **Co-Managing Director** - **FinFit Thursday Initiative:** Delivered financial literacy workshops.