

AFTAB ALAM MASJIDI

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EDUCATION

Barry University — B.S. Computer Science, **Specialization:** Cybersecurity

Expected Graduation: May 2026 | GPA: 4.0 / 4.0

Honors: Stamps Scholar (Full-Ride, top 0.5%), President's List (5x), Dean's List (2024), Outstanding Performance Award (2024)

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, SQL, HTML/CSS
- **Libraries & Frameworks:** PyTorch, TensorFlow, NumPy, scikit-learn, Java EE (Servlets, JSP)
- **Databases, Servers & Cloud:** MySQL, Apache Tomcat, Microsoft Azure
- **Developer Tools & Networking:** Machine Git, Linux, Eclipse IDE, Wireshark, Command-Line Network Utilities (netstat, tracer, nslookup)
- **Areas of Knowledge:** Machine Learning, Natural Language Processing (NLP), Generative AI, Software Engineering, Network Analysis, Cybersecurity, Data Structures
- **Mathematics:** Probability, Linear Algebra (Coursera, self-study), Discrete Math I–II (university courses)

RESEARCH EXPERIENCE

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

- Designed and implemented a hybrid prediction framework combining Ridge Regression, Random Forest, LSTM, and CNN architectures on S&P 500, Dow Jones, and Google Stock datasets (2013–2025).
- Integrated sentiment analysis and technical indicators (SMA, EMA, RSI) to improve trend prediction accuracy.
- Evaluated model performance using MSE and R^2 metrics; observed improved long-term stability in Transformer-based and LSTM models compared to classical methods.
- **Tools:** Python, TensorFlow, scikit-learn, NumPy, Pandas, Matplotlib on Intel CPU-based systems (no GPU).
- **Future Work:** Incorporate attention mechanisms and develop a real-time web dashboard for visualizing predictions

PROJECTS EXPERIENCE

Software Engineer — Dynamic Content Management & Security Portal

- Engineered a full-stack web application from the ground up using a Java EE stack (Servlets, JSP) and a MySQL database, architected with the Model-View-Controller (MVC) design pattern.

- Implemented a comprehensive security model featuring role-based access control (RBAC) for three user tiers (Admin, Standard, Guest) and secure user authentication with industry-standard BCrypt password hashing.
- Designed and integrated a database-driven content management system (CMS) for dynamic page content, articles, and job listings, alongside a full event-logging module for system auditing and activity monitoring.

Network Analyst & Protocol Developer — Data Communications & Integrity Project

- Conducted in-depth network traffic analysis using Wireshark and command-line tools (e.g., netstat, traceroute, nslookup) to perform deep packet inspection on protocols across the TCP/IP stack, including HTTP, DNS, TCP, and UDP.
- Developed a GUI-based application in Java to implement the Cyclic Redundancy Check (CRC) algorithm, creating a tool that packetizes binary data, applies selectable CRC polynomials for error detection, and includes a testing module for verifying data integrity.

PROFESSIONAL EXPERIENCE

AI Center & DX Lab Coordinator — Barry University (Sept 2025–Present)

- Manage operations of university AI, robotics, and emerging tech labs; assist in ML and XR student projects.
- Support faculty and students in deploying ML tools, optimizing hardware/software workflows, and conducting demos.

Software Engineer Intern — BeStudios (Remote) (May–Aug 2024)

- Built and optimized Java-based backend modules; improved runtime performance and scalability by 25%.
- Collaborated with multi-functional teams to design, test, and deliver client-ready solutions.

LEADERSHIP & SERVICE

Founder & President — Barry University AI Club (Sep 2025–Present)

Founded and lead an active student community exploring Artificial Intelligence, Machine Learning, and Data Analytics. Organize workshops, hackathons, and guest talks to promote hands-on learning, ethical AI development, and collaboration between students, faculty, and industry professionals.

Founder & President — Muslim Students Association (Barry University) (Jan 2024–Present)

Founded and lead 50+ member student community; coordinate campus-wide educational and cultural events.

Co-Managing Analyst — Student Managed Investment Fund (SMIF) (Sept 2024–Jan 2025)

Performed financial and technical valuation for tech-sector holdings; applied ML techniques to analyze trends.

Co-Managing Director — FinFit Thursday Initiative (2024–2025)

Conducted workshops teaching financial literacy and data-driven decision-making to local high school students.

RECOMMENDERS

Dr. James Haralambides — Professor of Computer Science, Barry University

Email: jharalambides@barry.edu

Prof. Safouan Tarik — Sr. Director for Innovation and Technology Education, Barry University

Email: tsafouan@barry.edu