

Aslam Aliyu

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Bachelor of Science in Computer Engineering May 2023
Master of Science in Industrial Engineering May 2025
Cumulative GPA: 3.65/4.00
Relevant Coursework: Neural Networks & Deep Learning (EECE 580), Computer Network Architecture (EECE 553)

SKILLS AND LANGUAGES

Programming Languages: Python, C++, JavaScript, SQL, C, HTML, CSS, MATLAB, VHDL
Frameworks and Libraries: TensorFlow, Pandas, NumPy, Matplotlib, Scikit-learn, Flask, LaTeX
Tools & Platforms: Linux, MacOS, Android, Xcode, Git, Jupyter Notebook, Ignition, Visual Studio Code
Concepts: Machine Learning, Distributed Systems, Object-Oriented Design, Scalability, System Optimization, Algorithms

PROFESSIONAL EXPERIENCE

Global Edge Consulting Inc, Web Engineering Developer / Manhattan, NY January 2023 – July 2023

- Led the end-to-end development of a website for a bookkeeping firm using HubSpot, improving user activity by 30%
- Implemented custom HTML, CSS, and JavaScript solutions to extend functionality and improve front-end performance
- Collaborated with marketing teams to enhance lead generation, contributing to a 24% increase in revenue

Amphenol Aerospace, Software Engineering Intern / Sydney, NY May 2022 - Aug 2022

- Automated data migration processes using SQL and Python, ensuring reliability and zero downtime
- Executed migration by first scripting in SQL for data extraction, then loaded onto new servers, ensuring no delays
- Optimized database accessibility by 66% through SQL query restructuring, key indexing, and streamlined data retrieval
- Trained 15+ staff members on new systems using custom documentation and live demonstrations, ensuring an easy adoption

Flexisaf, Software Engineering Intern | Abuja, Nigeria June 2019 - August 2019

- Deployed a secure payment portal using HTML, CSS, and JavaScript, integrating APIs for real-time updates
- Optimized school database systems by implementing query indexing, ensuring reliable processing for 50+ institutions
- Increased parents' satisfaction by reducing billing errors for 89 students and providing real-time payment status updates

PROJECT EXPERIENCE

Lockheed Martin Sponsored Autonomous Car, Software Lead / Group Project September 2022 - April 2023

- Designed and implemented deep learning models for object recognition using TensorFlow and deployed them on Nvidia Jetson, improving detection accuracy by 32% and scalability for real-time predictions
- Developed CNNs in TensorFlow for object detection, achieving 95% accuracy and addressing vulnerabilities in road marker
- Integrated ASICs for faster image processing, reducing latency by 0.03 seconds to support real-time decision-making
- Trained team on deployment of innovative autonomous RC car features, boosting accuracy and responsiveness by 32%

Single/Multi-Cycle ARM Processor, Team Lead / Group Project September 2021 - December 2021

- Developed a Single-Cycle ARM processor in VHDL on Basys 3 FPGA, improving efficiency by 25% for distributed tasks
- Upgraded to a Multi-Cycle architecture, reducing execution time by 30% and enhancing scalability
- Programmed and tested the processor with machine code, ensuring 100% fault tolerance and reliable simulation performance

Target Seeking 3Pi Robot, Team Member / Group Project April 2021 - May 2021

- Expertly programmed the 3Pi robot in C for sensor-guided navigation, enabling precise target square pursuit
- Resolved hardware glitches, conducted rigorous code testing, and delivered successful demos to supervisors
- Presented hardware demos, engaging in code discussions with professors and their assistants at Binghamton University

AFFILIATIONS AND LEADERSHIP EXPERIENCE

National Society of Black Engineers, Member September 2020 – Current

- Organized events such as resume workshops and career advice sessions to support professional development for members
- Represented Binghamton University at the NSBE50 Conference in Atlanta, engaged in discussions about innovation

Binghamton University Student Association, Congressman September 2021-May 2023

- Oversaw \$1M yearly budget for diverse student groups, enabling 100+ successful club events and initiatives
- Teamed with student reps to analyze legislations, ensuring fair representation and advocating diverse student interests

Theta Tau Professional Engineering Fraternity, Diversity and Inclusion Chair September 2021 – May 2023

- Chaired and facilitated diversity, equity, and inclusion workshops, fostering a more inclusive environment for members
- Instituted a mentorship program pairing underrepresented students with experienced members