

# Aslam Aliyu

Long Island City, NY | (646) 639-9450 | [aslamaliyu@gmail.com](mailto:aslamaliyu@gmail.com) | [linkedin.com/in/aslamaliyu](https://www.linkedin.com/in/aslamaliyu) | <https://github.com/AslamAliyu>

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## EDUCATION

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**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)

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## SKILLS AND LANGUAGES

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**Programming Languages:** Python, JavaScript (ES6+), C++, SQL, HTML5, CSS3, VHDL  
**Frameworks & Libraries:** FastAPI, React.js, TensorFlow, Pandas, NumPy, Scikit-learn, Matplotlib, OpenCV  
**Tools & Platforms:** Git, Postman, Docker, Linux (CLI), CRM Systems, Jupyter, VS Code, Google Sheets, FFMPEG  
**Concepts:** API Integration, Proof-of-Concept Development, Customer-Facing Solutions, Technical Requirements, Custom Workflows, Cross-Functional Collaboration

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## PROFESSIONAL EXPERIENCE

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**Uplifty AI, Product Manager** | Remote July 2025 - Present

- Partnered with Product, Engineering, and Design teams to scope technical requirements and ship an AI-powered app
- Translated customer feedback into product improvements, prioritizing features that drove engagement growth
- Built proof-of-concepts and custom workflows using automation tools, accelerating delivery timelines

**Amphenol Aerospace, Software Engineering Intern** | Sydney, NY May 2022 - August 2022

- Built automation scripts in Python and SQL to migrate data across systems, ensuring zero-downtime transitions
- Wrote SQL scripts for data extraction and validation, onboarding onto new database frameworks within days
- Restructured SQL queries and added key indexing, improving database performance by 66%

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

- Integrated APIs into a client-facing payment platform, helping customers track transactions in real time
- Enabled 50+ institutional clients through training and documentation, ensuring smooth onboarding and adoption
- Solved billing errors for 89 accounts by designing a real-time tracking solution, boosting customer satisfaction

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## PROJECT EXPERIENCE

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**AI-Powered Video Captioning Platform, Personal Project** | Solo Developer February 2025 - Present

- Built a FastAPI backend with Hugging Face Whisper API to auto-transcribe video audio in real time
- Designed a React prototype with live transcript preview, making the tool accessible to non-technical users
- Added click-to-summarize via transformer models, solving a specific content review problem for end users

**Card Wise AI Tool Intelligent Transaction Insight Tool, Personal Project** | Solo Project April 2025 - Present

- Built an OCR/NLP pipeline to auto-extract transaction data from documents and merchant sites
- Developed REST APIs for text extraction and entity recognition, building integrations for automated classification
- Integrated Hugging Face models to analyze merchant data, generating categorized spending insights for users
- Achieved 91% parsing accuracy, reducing manual data entry by 75% through automation

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

- Built TensorFlow deep learning models on Nvidia Jetson for real-time object recognition
- Developed CNNs for road marker detection in TensorFlow, achieving 95% accuracy
- Integrated ASICs for image processing, cutting latency by 0.03s to enable real-time decisions
- Explained technical concepts to a team of 5 through training and documentation, improving responsiveness by 32%

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## AFFILIATIONS AND LEADERSHIP EXPERIENCE

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**National Society of Black Engineers, Member** September 2020 - Current

- Organized career workshops and networking events, building relationships with professionals across tech and finance
- Represented Binghamton at NSBE50 in Atlanta, engaging with industry partners across technology sectors

**Binghamton University Student Association, Congressman** September 2021 - May 2023

- Managed a \$1M annual budget for student organizations, driving 100+ successful events through strategic allocation
- Communicated across diverse stakeholder groups, translating requirements and driving alignment for 100+ organizations

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

- Led DEI workshops for engineering students, fostering an inclusive and collaborative chapter culture
- Launched a mentorship program pairing 15+ underrepresented students with senior members for career guidance