Amun Jackson

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EDUCATION

North Carolina A&T State University Greensboro, NC
Bachelor of Engineering in Computer Science; 3.79 GPA | Expected May 2026

Relevant Coursework: Intro to Computer Programming (taught by Google Engineer in Residence - Dr. Tom Bersano), Discrete Structures, Computer Program Design, Data Structures, Algorithms, Data Base Design, Programming Languages, Computer Architecture, Internet Systems, Operating Systems, AI & Machine Learning, Networked Computer Systems, Linear Algebra, Statistics, Calculus 1, Calculus 2, Differential Equations

WORK & LEADERSHIP EXPERIENCE

Software Engineering Intern Raleigh, NC
Cisco Systems *May 2025–Present*
- Initiated migration of 8,500+ daily jobs, 50,000+ endpoints, and 1,500 projects from a legacy system to a scalable automation platform, improving IT operational capacity.
- Automated org lifecycle management with Python, Kubernetes, Docker, Argo Workflows, and Golang, reducing manual provisioning overhead.
- Built an admin control plane with dynamic forms and grids, streamlining automation workflows and boosting Cisco IT's self-service agility.

Data Science and Artificial Intelligence Research Intern Greensboro, NC
North Carolina Agricultural and Technical State University *May–July 2023*
- Trained RNN-based GAN models on protein datasets (1,600+ transmembrane proteins, 600+ antimicrobial peptides), generating 40+ synthetic sequences over 15 epochs.
- Validated sequences with BLASTP, achieving 50–80 alignment scores and reproducing CXCR4 protein family signatures.
- Applied GANs to GPCRs, demonstrating subtype discrimination and generation of realistic protein sequence patterns.

Cybersecurity and Artificial Intelligence Research Assistant Greensboro, NC
North Carolina Agricultural and Technical State University *Sep 2023–Present*
- Published "Explainable Machine Learning Based IDS for IoT" at CSCE 2024 (Springer Nature).
- Achieved >99% Accuracy, Precision, Recall, and F1 on IoT intrusion detection using Decision Tree & Random Forest across NF-ToN-IoT-V2 and NF-BoT-IoT datasets.
- Applied SHAP to identify key network features driving malicious vs. benign traffic classification, advancing explainable AI in cybersecurity.

PROJECTS

[Keep Up Web App], [Python, Flask, OpenAI API]
- Developed a web application tailored for cognitive-impaired users, leveraging OpenAI's ChatGPT to analyze user input and emails, generating personalized task schedules and time management goals.
- Integrated an AI chatbot to extract events from user input and emails, simplifying task management and time tracking.
- Developed a calendar with a streak system and Tkinter notifications for real-time task reminders, boosting productivity.

[AI-Powered Coding Interview Question Generator and Evaluator for Chevron], [Python, Flask, Socket.io, OpenAI API]
- Developed an AI prototype to assess technical skills and deliver unbiased evaluations of professionals in the hiring process.
- Designed an AI model that generates technical questions tailored to applicants' classifications and disciplines.
- Implemented an answer evaluation system, providing applicants with feedback and a rating on a scale of 1 to 10.
- Developed a user-friendly web interface using Flask and Socket.io for real-time interaction.

SKILLS AND SOFTWARE PROFICIENCIES

Languages: Python, C++, JavaScript, Java, Golang, MySQL, MongoDB, HTML, CSS
Libraries and Tools: React, Agile, Pandas, Numpy, Sklearn, Tenserflow, Matplotlib, Flask, SHAP, Docker, Node.JS, Git, Linux, Google Cloud, Kubernetes, Argo Workflow, GitHub Actions

ACTIVITIES & HONORS

Academic: Chancellor's List (Sp/Fa 2023–25), Dean's List (Fa 2022), Bloomberg Academy Scholar
Orgs: Upsilon Pi Epsilon (Secretary) Association of Computing Machinery (Member), National Society of Black Engineers (Member)
Hackathons/Leadership: NCAT Hackathon – 3rd (Sp 2023), 2nd (Fa 2023), Captain – Black Enterprise Team 2024