

KWAME ADDO

862-930-0638 | addok1@montclair.edu | Irvington, NJ 07111 || www.linkedin.com/in/kwa1234

Computer Science Student seeking a challenging position in the field of computer science, leveraging my expertise in software development, data analysis, data cleaning, data visualization, and problem-solving. Eager to contribute my skills to drive innovative projects while continuing to refine my abilities and gain practical experience in a professional environment. Experience includes an internship at Amazon AWS, where I applied my knowledge to real-world projects and collaborated with industry professionals.

Areas of Expertise: Software Engineer // DATA ANALYST

EDUCATION:

Montclair State University (MSU), Montclair, NJ

Master of Science in Computer Science -

Expected Graduation Sep 2025

Current GPA – 3.9

Relevant Coursework: Java Programming, Data Structures and Algorithms, Discrete Mathematics, Computer System Designs, Software Engineering and Reliability, Computer Algorithms and Analysis, Computer Architecture

Coursera

Python for Data Science and AI

Dec, 2023

Relevant Coursework: Python Programming, Python Data Structures, Unittest, BeautifulSoup, Bokeh, Pandas, Numpy, Seaborn, Jupyter

Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

Bachelor of Science in Geomatic Engineering

May 2017

Relevant Coursework: Intro to Information Technology, Information Science and Programming, Digital Image Processing, Photogrammetry, Geographical Information Systems

TECHNICAL PROFICIENCIES:

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- **Languages** – JAVA; React; JavaScript; HTML; CSS; Python; SQL; Node.js; Bootstrap; Regex; Pandas; NumPy; Flask; Matplotlib; Scala, C, Assembly Language.
 - **Applications** – Excel; Word; PowerPoint; Outlook; IntelliJ; PyCharm; ChatGPT; Visual Studio Code; SQL Server; PostgreSQL; MySQL; Git; Eclipse; VMware; Active Directory; ArcGIS; AutoCAD; Object Oriented Programming, Unit Testing, Postman, Jupyter, Linux, Windows, MacOS, Insomnia, AWS, Docker, Redis
 - **Certifications** – CompTIA A+; CompTIA Security; ITIL; CISA; CCNA, Python for Data Science by Coursera;

WORK EXPERIENCE:

Amazon, Seattle, WA

June 2024 – September 2024

Software Development Engineer

- Designed and implemented a scalable data deletion workflow using AWS CDK, AWS Lambda, and AWS Step Functions to identify and delete obsolete data in Amazon S3, resulting in cost savings of \$20,000 per month S3 storage costs and deleted unassociated data that was 77% of total data stored on S3.
- Automated the termination of EMR clusters to prevent data accumulation from incomplete jobs, reducing unnecessary compute costs and ensuring that clusters scaled down gracefully.
- Utilized AWS SNS, SQS, and Lambda to orchestrate a reliable and efficient data deletion process for large-scale datasets in Amazon S3. Published deletion requests to an SNS topic, managed message buffering and batching through SQS queues, and triggered Lambda functions to process each deletion task asynchronously. Implemented error handling and retry mechanisms to ensure complete and accurate deletions, reducing S3 storage costs by leveraging serverless architecture. Integrated AWS CloudWatch for real-time monitoring, logging, and alerting to maintain operational visibility and performance.

Invisible.co, Remote

October 2023 – present

Junior Software Developer

- Developed a comprehensive Dashboard for invisible.io, leveraging CSS, React, Flask, and MongoDB to facilitate advanced data queries and search operations for administrators.
- Designed and implemented a tailored database using MongoDB, ensuring robust data management and streamlined administrative access for efficient operations.

Alstom, New Jersey, NJ

Nov 2021 – Sep 2024

Wayside And Communication Technician

- Demonstrated proficiency in emergency management, encompassing swift hardware replacement and adept utilization of audio/video equipment for tasks such as surveillance.
- Conducted rapid network troubleshooting and fault resolution, while also aiding customers via the emergency E-call system. Installed and configured network equipment, including access points, DHCP servers, and printers/copiers.
- Orchestrated safe and efficient train operations through the ATC system, expertly managing power configurations with SCADA, and skillfully resolving SCADA-related network issues, UPS alarms, and substation alarms.

Accurit, Overland, KS

Feb 2020 – Sep 2021

IT Support Specialist

- Conducted comprehensive end-user training on hardware and software, ensuring seamless adoption.
- Managed and prioritized Help Desk calls, maintaining a structured workflow using the Help Desk database.
- Enhanced functionality of audio/visual equipment facilitated equipment replacements, software upgrades, and meticulously documented progress. Additionally, assisted users in diagnosing data communication issues, provided expert printer and copier support, and extended IT assistance to staff, fostering collaborative synergy across departments.

37 Military Hospital, Accra

May 2017 – Feb 2020

System Administrator

- Spearheaded efforts to ensure a seamless experience for organization employees on local intranet webpages, elevating end-user satisfaction by addressing requests through various channels.
- Strengthened data privacy and security by enforcing password standards through Active Directory, resulting in reduced downtime via system upgrades, and maintaining the reliability of file servers and the intranet site.

- Executed diverse responsibilities, including hardware maintenance, mobile device management with Microsoft Intune, active participation in strategic meetings, and creation of Python scripts for automated backups and unit testing. Diligently documented procedures and managed software licenses to ensure the smooth operation of local intranet webpages.

RESEARCH EXPERIENCE:

The Engineering Department, (KNUST)

Sep 2015 – May 2017

Geospatial Mapping of Hospitals

- Conducted comprehensive geospatial mapping to analyze hospital distribution, optimizing healthcare accessibility and resource allocation.
- Utilized GIS technology to create detailed visual representations, aiding in emergency response planning and healthcare infrastructure development.

PROFESSIONAL ASSOCIATIONS:

Member, ISACA