

# DOUGLAS AKWASI KWARTENG

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## PROFESSIONAL SUMMARY

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Cybersecurity graduate student with hands-on experience in academic support, research operations, security analysis, and digital forensics. Brings a strong foundation in Python, Java, SIEM tools, and technical problem-solving, with proven experience supporting student learning, automating data workflows, and analyzing system and forensic data. Seeking a cybersecurity, IT, research, or technology internship where I can contribute analytical, technical, and collaborative skills in a professional work environment.

## EDUCATION

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### Master of Science in Cybersecurity

Jan 2026 - Present

*University of North Carolina at Charlotte, Charlotte, NC*

- Expected Graduation: December 2027  
Relevant focus areas include cybersecurity analysis, digital forensics, threat detection, machine learning, and technical research.

### Bachelor of Science in Information Technology

Aug 2016 - Jul 2020

*University of Education, Winneba, Kumasi, Ghana*

- First Class Honors
- CGPA: 3.8/4.0

## TECHNICAL SKILLS

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Programming: Python, Java, PHP, R, HTML, CSS, Bootstrap

Cybersecurity Tools: Kibana, Elasticsearch, Wazuh

Digital Forensics Tools: FTK Imager, Autopsy, Arsenal, OSFMount, Recuva

Technical Areas: Log analysis, threat detection, alert investigation, forensic imaging, metadata analysis, deleted file recovery, hash validation, data automation, database development

Productivity Tools: Microsoft Word, Excel, PowerPoint, Outlook, Asana, Microsoft Teams

## EXPERIENCE

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### Research Associate

Jan 2024 - Dec 2025

*Leonard C. Cooper Jr. Center for International Trade, North Carolina A&T State University, Greensboro, NC*

- Automated trade data workflows to improve research efficiency and reduce manual processing across recurring reporting tasks.
- Designed and maintained structured databases that improved data organization, long-term accessibility, and reporting support.
- Cleaned and integrated large datasets for use in presentations, publications, and research-driven projects.
- Collaborated with research teams to deliver accurate, analysis-ready data that supported informed project outcomes.

### Network Administrator

Dec 2021 - Dec 2023

*Perfect Lines Enterprise, Greensboro, NC*

- Installed, configured, and maintained network hardware and software to support secure and reliable operations.
- Diagnosed and resolved connectivity and access issues to minimize system downtime and user disruption.
- Provided technical support that helped maintain stable network performance in a professional environment.

## Teaching Assistant

Aug 2020 - Sep 2021

University of Education, Winneba, Kumasi, Ghana

- Supported undergraduate instruction in programming courses through classroom assistance, lab support, and student mentoring.
- Guided students through assignments and practical exercises in HTML, CSS, Bootstrap, Java, PHP, and computer programming principles.
- Provided one-on-one academic support to strengthen students' understanding of technical concepts and coursework.

## PROJECTS

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### Trade Data Pipeline Automation and Database Development

- Built and improved data workflows and database structures to support research operations and improve reporting reliability.

### Digital Forensics Investigations

- Performed forensic examinations involving evidence verification, metadata extraction, deleted file recovery, and cross-tool validation using industry-standard tools.

## ADDITIONAL EXPERIENCE

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- Analyzed logs using Kibana, Elasticsearch, and Wazuh to identify suspicious activity and support threat detection workflows.
- Wrote Python scripts to support anomaly detection and log analysis tasks.
- Conducted forensic image verification and evidence integrity checks using MD5 and SHA1 hash validation techniques.
- Prepared structured technical findings and forensic summaries based on investigative results.

## LEADERSHIP AND SERVICE

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- Developed a website for Christ Apostolic Church - Bethel Assembly, Greensboro, NC.
- Served as Tech Assistant at Temple of Grace Church, supporting livestreaming and media projection.
- Led project planning and technology selection as Team Lead, Internet of Things Network Hub, Ghana.