





# Timothy Agboada

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## Education

<b>PhD Computational Data Science and Engineering</b> North Carolina A&T University, Greensboro, NC	Aug 2025 – May 2028
<b>Master of Science in Computer Science</b> Norfolk State University, Norfolk, VA	Jan 2022 – Dec 2024
<b>Bachelor of Science in Computer Science and Engineering</b> University of Mines and Technology, Tarkwa, Ghana	Sept 2014 – May 2018

## Skills

<b>Languages &amp; Tools:</b> Python, Java, Node.js, SQL, JavaScript, Docker, Kubernetes, Git, REST APIs, CI/CD, Apache Airflow, AWS Glue, Meltano, DBT, Scikit-learn, Tableau, Power BI
<b>Cloud Platforms:</b> AWS (S3, Lambda, Redshift), OpenShift, Hadoop
<b>Core Competencies:</b> Object-Oriented Programming, Agile & Scrum, Microservices, Spring, Unit Testing, Integration Testing, Software Design Patterns
<b>Soft Skills:</b> Problem Solving, Strategic Thinking, Communication, Collaboration, Mentoring

## Work Experience

<b>Software Development Engineer</b> <i>Amazon Robotics</i> <ul style="list-style-type: none"><li>Optimized robotic workflows via simulation models, improving efficiency by 15%.</li><li>Conducted unit and system testing to ensure 100% data reliability and robustness.</li><li>Collaborated with teams to analyze system performance metrics.</li></ul>	Aug 2024 – Dec 2024 Westborough, MA
<b>Data Engineer</b> <i>Singlestone Consulting</i> <ul style="list-style-type: none"><li>Built staging models for data warehouse using DBT and Meltano.</li><li>Built data validation frameworks, reducing inconsistencies by 30%.</li><li>Automated data ingestion using Python and AWS Glue, improving speed by 40%.</li></ul>	June 2023 – Aug 2023 Richmond, VA
<b>Customer and Marketing Data Analyst</b> <i>British Council</i> <ul style="list-style-type: none"><li>Analyzed customer behavior using SQL, Python, and Google Analytics, increasing engagement by 20%.</li><li>Developed segmentation models, improving conversion rates by 15%.</li><li>Conducted A/B testing to optimize marketing campaigns.</li></ul>	Sep 2019 – Dec 2021 Accra, Ghana
<b>Data Engineer</b> <i>Vodafone</i> <ul style="list-style-type: none"><li>Designed scalable data pipelines using SQL, Python, and Apache Spark with 30% improvement.</li><li>Developed ETL processes with Apache Airflow, reducing latency by 25%.</li><li>Preprocessed data for machine learning models, improving accuracy by 15%.</li></ul>	May 2018 – Sep 2019 Accra, Ghana

## Certifications

<b>Certifications:</b> AWS Certified Data Engineer, AWS Cloud Practitioner, Professional Scrum Master I, dbt Essentials, Asana Workflow Specialist.
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## Projects

<b>COVID Impact Dashboard – Tableau</b> Developed a real-time dashboard analyzing COVID-19's socioeconomic impact using live data feeds.	Python, Tableau, SQL
<b>Customer Segmentation Model – Github</b> Built a predictive clustering model to classify customers, improving targeted marketing by 20%.	Python, Scikit-learn, AWS Redshift
<b>ETL Pipeline for Sales Data – Github</b> Designed an ETL pipeline to ingest and transform sales data, enabling real-time revenue insights.	Apache Nifi, Snowflake, Power BI
<b>React Personal Dashboard – Github</b> App that provides live weather, crypto prices, date and time data. Built using React.	React, Babel, TailwindCSS

## Leadership and Awards

NSU Outstanding Graduate Student Award	April 2024
ASPIRE Mentor	Dec 2023 – Dec 2024
Graduate Student Association – College of Engineering Rep	Aug 2025 – May 2026

## Publications and Activities

- Presented at ICCA 2024 Conference. [IEEE publication.]
- Attended Amazon University Event Campus Prep Series.