Nzinga Holloman

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EDUCATION

North Carolina Agricultural and Technical State University — Greensboro, NC
B.S., Computer Science | Magna Cum Laude | GPA: 3.75 — May 2022

- Google Tech Exchange (Spring 2021, Fall 2021)
- Honors: Chancellor's List (Fall 2019, Fall 2020), Dean's List (Spring 2021, Fall 2021, Spring 2022)

West Chester University of Pennsylvania — West Chester, PA
B.S., Computer Science | GPA: 3.67 — Transferred

CERTIFICATIONS

Academy Accreditation - Databricks Fundamentals — June 2025
Oracle Cloud Infrastructure 2024 Generative AI Certified Professional — December 2024
Oracle Cloud Infrastructure 2022 Certified Foundations Associate — January 2024

SKILLS

Python, Java, Scala, SQL, Apache Spark, ETL Pipelines, Oracle Cloud Infrastructure, PostgreSQL, Real-Time Data Processing, Git, Data Quality, Feature Engineering, Shell Scripting, Oracle Machine Learning Notebook

EXPERIENCE

Application Engineer, Oracle - Remote — September 2022 – Present

- Designed and maintained scalable batch data pipelines using **Apache Spark**, **PySpark**, **SQL**, and **Shell scripts** to automate workflows and streamline data operations, ensuring robust code quality through unit testing and peer reviews in a production-grade environment.
- Engineered a **Spark**-compatible decryption and compression module in **Scala** to process encrypted PGP files, improving data pipeline reliability and reducing processing latency by 10% in large-scale ingestion workflows.
- Developed metadata tracking tables in **Oracle Autonomous Data Warehouse** to capture pipeline lineage, job status, and failure diagnostics — enabling better data governance, traceability, and faster debugging across transformation workflows.
- Updated data transformation applications, feature creation applications, and disaggregation applications to process data from customizable schemas, then administered **AB testing** output data.
- Built a **Scala**-based feature engineering service to generate weather-derived datasets (temperature, dewpoint) from **Oracle ADW**, enabling ML models to forecast energy use across time windows and locations.
- Partnered with data scientists and engineers to implement rule-based and ML-powered anomaly detection models, improving meter fault detection and consumption forecasting by leveraging historical usage and weather data at scale.
- Upgraded **Oracle Cloud Infrastructure** tenancies, overseeing the deployment and testing of ML/OPS and ETL jobs for efficient cloud-based workflows.

Mentor, Edlyft - Remote — August 2022 – December 2022

- Tutored 10 college-level computer science students in **Java** programming and **data structures**, reinforcing problem-solving skills critical for technical interviews and engineering roles.
- Tracked student performance, offering individualized feedback and additional support to ensure success in coursework.
- Advised students on career development, conducting resume reviews, mock technical interviews, and providing guidance on internship/job applications and networking.
- Maintained detailed session records and progress notes, using insights to refine teaching strategies
- Cultivated an inclusive and collaborative learning environment, promoting engagement, peer discussion, and confidence in technical problem-solving.

Software Engineer Intern, Oracle - Remote May 2021 – August 2021

- Built an end-to-end real-time data pipeline to disaggregate energy data using **Spark** and **Scala**, streaming data into interactive dashboards with **Oracle's visualization tools** with one other intern and an engineer.
- Developed a batch ingestion library using Spark-JDBC to extract data from **PostgreSQL** and write delta files to **OCI Object Storage**, supporting scalable data processing workflows.
- Implemented a mock API in **Python** to simulate streaming input data for testing pipeline robustness and data ingestion accuracy.

Participant, Autodesk Tech Program - Remote January 2021 – April 2021

- One of four students selected to work aside are engineers, UI/X designers, and product managers to develop key features including a list view for the using **ReactJS**.

Undergraduate Research Assistant - North Carolina A&T August 2020 – December 2020

- Assisted a professor with 4 other students to designing and creating a sybil detection method for social media accounts.
- Collected and analysis data using the Twitter API in **Python**, to create a supervised learning model.
- Expanded knowledge on sybil detection methods, machine learning, and supervised learning algorithms through research.

Participant, Google Software Product Sprint - Remote February 2020 – May 2020

- Collaborated with a team of five to design and implement a web application using **Java, JavaScript, HTML and CSS** over the course of 10 weeks, leveraging various Google Cloud Platform APIs, including App Engine and Datastore.
- Practiced industry best practices such as: Contributing to open-source software using Git and GitHub, conducting code reviews, practicing in distributed development, designing new components and interfaces leading them to completion.
- Translated UX wireframes and mockups into interactive features, using **HTML/CSS** and **JavaScript**. View: https://github.com/gferioli0418/travelbud
- Built a portfolio website in 4 weeks, using Google's Chart API. View: https://github.com/NzingaHolloman/my-portfolio

Software Engineer Intern, Dell Technologies - Remote June 2020 – July 2020

- Collaborated with a team of interns to design a secure authentication protocol for SAN systems, applying challenge-response logic and encryption techniques.
- Built and tested a **Redis**-backed credential store in **C++** with focus on data integrity and real-time access speed.
- Practiced **Agile** methodologies and test-driven development while reporting progress to cross-functional mentors weekly.