# Nzinga Holloman

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Python, Scala, Apache Spark/ PySpark, OCI, SQL, Java, C++
GitHub: https://github.com/NzingaHolloman
Portfolio: https://nzingaholloman.github.io/

## 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

Oracle Cloud Infrastructure 2024 Generative AI Certified Professional — December 2024
Oracle Cloud Infrastructure 2022 Certified Foundations Associate — January 2023

## KEY SKILLS

Scala, Python, Apache Spark/ PySpark, C/C++, Oracle Cloud Infrastructure, Java, CSS/HTML/JS, Git, Android Studio, Intellij

## RELEVANT EXPERIENCE

**Application Engineer, Oracle** — September 2022 – Present
- Implemented and tested a custom UDF that quickly decrypt PGP encrypted files and rewrites as compressed CSV files to circumvent **Sparks** failure to support encryption, resulting 10% reduction in computational speed.
- Enhanced transformation applications to use tracking tables located in **Oracle Autonomous Data Warehouse** to record input locations, output locations, job status, failure reasons, and creation time resulting in a data cataloging and simplified debugging.
- Updated data transformation applications, featureset creation applications, and disaggregation applications to process data from customizable schemas, then administering **AB testing** on Opower and Oracle Utilities Analytics Insights output data.
- Designed and constructed weather feature creation **Scala** application, that produced multiple tailored feature sets, containing temperature and dewpoint data, from **Oracle Autonomous Data Warehouse**, for a specified location points in a time window.
- Worked on the utilities team to implement rule based algorithms and ml-based models that detects faulty energy meters and generate insights on energy consumption, such as predicting values based on historic usage rates and weather information.
- Upgraded **Oracle Cloud Infrastructure (OCI)** tenancies, overseeing the deployment and testing of ML/OPS and ETL jobs for efficient cloud-based workflows.
- Collaborated within a Data Analytics team to deliver actionable insights on large datasets, contributing to revenue protection, unauthorized access detection, usage and billing forecasting, and electric vehicle detection.
- Utilized **Apache Spark**, **PySpark**, **Scala**, **SQL**, and **Shell scripting** to build scalable data pipelines, automate workflows, and streamline data operations that adhere to coding standards, code reviews, development testing, and production testing.

**Mentor, Edlyft** — August 2022 – December 2022
- Created and taught supplemental learning resources regarding **data structures** on a weekly basis for 10 students, while tracking student progress, and providing ongoing support to ensure continued success.
- Advised on career development, including resume reviews, mock interviews, job preparation, and networking opportunities.
- Maintained accurate session records, feedback for future reference, followed professional guidelines, and created an inclusive, engaging environment.

**Software Engineer Intern, Oracle** — May 2021 – August 2021
- Constructed an end-to-end real-time Disaggregation tool that streamed data from Pecan Street to interactive graphs created with Oracle's visual builder with one other intern and an engineer.
- Created a data ingester library by leveraging the **Spark-JDBC library**, that collected data from a **PostgreSQL** database a batch mode, then produced delta files in **Oracle Cloud Infrastructure Object Storage**. Programmed with **Scala**.
- Designed and built a Mock API to stream test data to **PostgreSQL** in **Python**.

**Participant, Autodesk Tech Program** — January 2020 – 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 Shotgun team using ReactJS.

**Undergraduate Research Assistant, Assistant, North Carolina A&T State University** 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.

**Software Engineer Intern, Dell Technologies** June 2020 – July 2020

- Worked with 4 interns to create an authentication verification entity that prevents impersonation in a storage area network.
- Learned and built a **Redis** database using encryption/decryption techniques to store and retrieve data that was coded in **C++.**
- Participated pro-actively in weekly team meetings and conducted reports on the projects' progress.
- Implemented a Challenge-Handshake Authentication Protocol that authenticates a user and host to an authentication entity in 4 weeks by using test driven development.

**Participant, Google Software Product Sprint** 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