Christine **Onita**

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EDUCATION

Bachelor of Science in Electrical Engineering, Minor in Software Engineering June 2023
Drexel University, Philadelphia, PA *Cumulative GPA: 3.49/4.0*

- **Relevant coursework:** Linear/Dynamic Engineering Systems, Power Electronic Converter Fundamentals, Electric Circuits, Advanced Programming Tools and Techniques, Software Specification and Design, Software Architecture (I, II), Software Engineering and Development (Test Driven Development), Multivariate Calculus, Discrete Mathematics, Applications of Power Electronic Converters

TECHNICAL SKILLS

Languages: Java, Python, PostgreSQL
Developer Tools/Frameworks: Git, JUnit, Gradle, VS Code, PyCharm, IntelliJ
Operating Systems: macOS, Windows, Unix
Software: MATLAB, Multisim, LTspice

WORK EXPERIENCE

Reliability Engineer – Intern April 2021 – September 2021
PJM Interconnection LLC *Philadelphia, PA*

- Scheduled/dispatched generating units and administered the power interchange transactions with other area within the Eastern Interconnection per *NERC* Reliability standards
- Monitored and controlled the loading on the bulk power transmission system
- Maintained acceptable voltage profiles and monitored/operated the Interchange Distribution Calculator (IDC) and Reliability Coordinator Information System (RCIS)

C & M Engineer – Intern September 2019 – March 2020
PECO, An Exelon Company *Philadelphia, PA*

- Involved in PECO's ongoing effort to maintain a high standard of service reliability to all 706,000 residential, commercial, and industrial customers in the city and county of Philadelphia
- Identified and addressed power quality and reliability issues
- Tracked performance and maintenance costs of aging equipment as a basis for proactive replacement
- Kept watch on and relieved overloaded equipment before service interruptions occurred

PROJECTS

Artificial Sunlight Window | *Arduino, MIT App Inventor* September 2022 – June 2023

- Created a software solution (using MIT App Inventor) for controlling the light intensity and temperature of an artificial sunlight window system, providing users with a dynamic and customizable lighting experience
- Developed and tested the mobile application and its integration with the Bluetooth-enabled microcontroller, enabling users to adjust various inputs and control the system remotely
- Designed and implemented the user interface for the project, allowing users to input their city information and retrieve latitude, longitude, and time zone data. Utilized a database of populous cities to facilitate accurate calculations for the artificial sun's angle and brightness

Survey Taking System | *Java, GitHub* | Link September 2022 – December 2022

- Designed a generic console-based survey/test taking system that also allows users to create surveys and tests consisting of different types of questions (true/false, multiple choice, essay, short answer, matching and valid date)
- Added grading functionality to tests which are calculated and shown to the user when one is taken
- Incorporated survey/test storage (along with their responses) with the use of serialization which was used to tabulate feedback

Bank Software Design | *Java, Gradle, JUnit, GitLab CI/CD* | Link March 2022 – June 2022

- Designed and developed a bank software system using Test Driven Development allowing users to create checking - as well as savings and CD – accounts and perform tasks such as deposit, withdrawal and output which shows the details of open accounts
- Performed unit tests to improve software functionality
- Regularly updated code in GitHub for documentation, preservation and version control

Electric Vehicle Test-Bed | *Arduino, MATLAB* | Link January 2021 – March 2021

- Built a collision avoidance system using LEDs, an ultrasonic sensor, servo motor and an infrared remote
- Implemented and tested the system's security measure using a card and fob (one of which was predetermined to be an unauthorized user)
- Designed a Graphical User Interface in MATLAB to display the system's status in real time