

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: 3.5/4.0

- **Relevant coursework:** Data Structures, Linear/Dynamic Engineering Systems, Power Electronic Converter Fundamentals, Electric Circuits, Complex and Vector Analysis for Engineers, Advanced Programming Tools and Techniques, Software Specification and Design, Software Architecture (I, II), Software Engineering and Development (Test Driven Development), Multivariate Calculus, Discrete Mathematics

TECHNICAL SKILLS

Languages: Java, Python, C, C++, MATLAB

Developer Tools/Frameworks: Git, JUnit, Gradle, VS Code, PyCharm, IntelliJ

Operating Systems: macOS, Windows, Unix

WORK EXPERIENCE

Academic Center for Engineers (ACE) Tutor

September 2022 – present

Drexel University

Philadelphia, PA

- Conducted one-on-one tutoring sessions for first- and second-year undergraduate students in various engineering and mathematics courses
- Gave remote instruction to help them understand complex topics for quizzes and exams
- Used class materials to provide discussion points and sample problems

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)

Configuration Management 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

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

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

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