

Christine Natasha Onita

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[github](#) | [linkedin](#) | [homepage](#)

SKILLS

Programming Languages Java | SQL (Postgres) | C | Bash | JavaScript | MATLAB | Simulink
Tools/OS JUnit | Git | Postman | VSCode | IntelliJ | Pycharm | macOS | Windows | Unix
Misc. Test-Driven Development | Unit Testing | Project Management | Agile Methodologies | System Reliability | Equipment Performance Tracking | Technical Documentation | Unified Modeling Language (UML)

EXPERIENCE

Gamr. Inc

September 2023 - Present

Software Engineer

Sheridan, WY

- Designed and implemented scalable software solutions, collaborating with senior engineers to enhance the platform and mobile app for scheduling e-gaming tournaments.
- Executed comprehensive testing protocols and debugged code to ensure seamless functionality, contributing to high software quality and user satisfaction.
- Documented code changes, technical specifications, and system designs to maintain clear project records and facilitate efficient team collaboration.
- Engaged closely with cross-functional teams, including product managers and QA engineers, to deliver innovative software products that met client needs and improved user experiences.

NOTABLE PROJECTS

Artificial Sunlight Window

Arduino, MIT App Inventor

- Engineered a control system using Arduino to regulate light intensity and temperature of an artificial sunlight window, improving energy efficiency and user comfort ratings.
- Developed a mobile application with MIT App Inventor for remote system control, enhancing user convenience and accessibility.
- Conducted extensive user testing, achieving high satisfaction rates and significantly reducing reported issues.

SurveyMaster: Interactive Survey and Test Platform

Java, GitHub

- Developed a console-based survey/test application using Java, featuring diverse question types to enhance assessment flexibility and user engagement.
- Implemented grading functionality and utilized serialization for efficient data storage, ensuring data integrity and accessibility.
- Achieved a 100% test case success rate, validating the robust performance and reliability of the system.

CashFlow: Advanced Banking System Design

Java, Gradle, JUnit, GitLab CI/CD

- Designed and implemented a comprehensive financial institution management system with checking, savings, and CD account functionalities using Java and Gradle, leveraging Test Driven Development (TDD) principles.
- Developed and executed rigorous unit tests for critical components using JUnit, achieving a 100% pass rate.
- Integrated GitLab CI/CD pipelines to automate builds, tests, and deployments, enhancing development efficiency and ensuring continuous integration.

Electric Vehicle Test-Bed

Arduino, MATLAB

- Built and integrated a physical system for collision avoidance using LEDs, ultrasonic sensor, servo motor, and infrared remote.
- Programmed the system using Arduino and MATLAB to ensure a robust safety framework and functionality.
- Enhanced security features by implementing card and fob authentication, bolstering access control mechanisms.
- Conducted comprehensive testing protocols, achieving a 97% success rate in system reliability tests, validating design efficacy and functionality.

EDUCATION

Bachelor of Science in Electrical Engineering, Minor in Software Engineering

June 2023

Drexel University

Philadelphia, PA

Relevant Coursework: Data Structures, Database Systems, Software Specification and Design, Software Architecture