David Obaro

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EDUCATION

University of Pittsburgh *Pittsburgh, PA*
B.S. in Computer Science, cum laude & Minor in Economics Aug 2021 – May 2025

- **Relevant Coursework**: Data Structures and Algorithms, Computer Organization & Assembly Language, Intro to Systems Software, Software Quality Assurance, Software Engineering, Programming Languages for Web Applications, Intro to Machine Learning, Interface Design Methodology, Mathematical Foundations of Machine Learning, Structure of Programming Languages.
- **Activities**: Computer Science Club at Pitt, National Society of Black Engineers

TECHNICAL SKILLS

- **Languages**: Java, Python(pandas, numPy), C, x86, Javascript, SQL, R, Swift
- **Other**: MS Office, Linux, GitHub, Postman, HTML5/CSS, JUnit, Mockito, Selenium, Git, Agile, Object-Oriented Programming, Design patterns, CI/CD pipelines, Containerization, Deployment automation, Flyway, Spring Boot, Postgres, Jira, Heroku

EXPERIENCES

Software Engineering Intern May 2024 – June 2024
UPMC Enterprises *Pittsburgh, PA*
- Collaborated with a cross-functional team to develop a Spring Boot web application that performed ETL operations on JSON logs and loaded data into a SQL database, ensuring scalable data migration with Flyway.
- Processed and managed JSON files containing 100,000 objects, and dynamically displayed 1,000 transformed records on a web interface, demonstrating proficiency in API design and object-oriented programming.
- Designed and implemented API routes in the backend to facilitate seamless communication between the database and frontend using Java and java.sql for query generation and result retrieval.

Technology Help Desk Consultant Jun 2023 – August 2024
University of Pittsburgh ~ Pitt IT *Pittsburgh, PA*
- Assisted 50 + University community members weekly with troubleshooting software and hardware issues, exhibiting effective problem solving and customer service skills.
- Demonstrated mastery of Pitt systems and technologies by assisting and resolving account and multifactor authentication issues for students, staff, and faculty members, whilst upholding the highest customer service standards.

PROJECTS

CEC Check-in Kiosk and Database Capstone Project ~ *SwiftUI, PostgreSQL, Flask, Python, Heroku* 2025
- Collaborated with a team to build an iOS check-in kiosk app using SwiftUI, enabling streamlined visitor check-ins at the University's Community Engagement Centers (CECs).
- Worked with teammates to implement Vapor-based backend APIs (GET, POST, PATCH) handling check-ins and event retrieval; deployed through Heroku with continuous integration.

System Unit Testing ~ *JUnit, Mockito, Java* 2024
- Collaborated with a partner to implement a sample rental system using Test Driven Development (TDD) principles and employing concepts from the SDLC.
- Developed and wrote unit tests for the classes using JUnit and Mockito, ensuring a 90% coverage for the codebase.

Neighborhood Evaluator ~ *Python, pandas* 2022
- Collaborated with a team to develop a comprehensive metric for evaluating the best neighborhoods in Pittsburgh by combining data sourced from the Western Pennsylvania Regional Data Center.
- Analyzed the data for 200 neighborhoods, giving detailed evaluations of and producing a ranking of the neighborhoods.