

# David Obaro

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## EDUCATION

### University of Pittsburgh

*B.S. in Computer Science, cum laude & Minor in Economics*

*Pittsburgh, PA*

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

*UPMC Enterprises*

May 2024 – June 2024

*Pittsburgh, PA*

- Collaborated with a team to develop a Spring Boot web application that performs ETL operations on JSON record logs and loads them into a SQL database utilizing Flyway for database migration.
- Managed and processed JSON files of 100,000 objects, displaying 1,000 transformed records on the web page post-query.
- 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

*University of Pittsburgh ~ Pitt IT*

Jun 2023 – August 2024

*Pittsburgh, PA*

- Provided help to University community members with regard to troubleshooting software and hardware issues.
- 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.