

# 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, Intro to Systems Software, Software QA, Software Engineering, PLs for Web Apps, Intro to ML, Mathematical Foundations of ML.
- **Activities & Awards:** Computer Science Club at Pitt, National Society of Black Engineers, School of Computing and Information Dean's List.

## EXPERIENCE

### Software Engineer Intern

May 2024 – June 2024

*UPMC Enterprises*

Pittsburgh, PA

- Collaborated with an **agile** team to develop an internal **Spring Boot** web application that processes SMS record logs to identify unintended message spikes caused by the medical record system changes.
- Built ETL pipelines to parse, transform, and load over 100,000 records per session into a **PostgreSQL** database using Flyway for seamless schema migration, ensuring data integrity and accessibility.
- Implemented 5 API routes using **Java** and `java.sql` to query, filter, and serve relevant records to the **AngularJS** frontend.
- Designed **Python** scripts with SQLAlchemy to normalize and optimize data fields, improving query speed by 30% and reducing data redundancy.

### Technology Help Desk Consultant

Jun 2023 – August 2024

*University of Pittsburgh ~ Pitt IT*

Pittsburgh, PA

- Resolved 50+ technical support tickets weekly, assisting students, faculty, and staff with software, hardware, and multifactor authentication issues.
- Provided customer service with a 98% issue resolution rate, ensuring fast resolutions and improved user satisfaction.

## PROJECTS

### Stock Tracker & Predictor | *Python, Flask, Streamlit, Plotly, Render, TensorFlow*

2025

- Built and deployed a **full-stack** stock portfolio web app using **Flask** and **Streamlit**, integrating Finnhub and Yahoo Finance APIs to enable real-time and historical market analysis with comprehensive data.
- Developed interactive dashboards with Plotly to visualize price trends, trading volumes, and technical indicators across various stocks.
- Implemented an LSTM-based price prediction module using **TensorFlow** and scikit-learn for next day price predictions.
- Deployed backend on Render and frontend on Streamlit Cloud with CI/CD workflows and secure API key handling.

### CEC Check-in Kiosk and Database | *SwiftUI, PostgreSQL, Vapor Flask, Python, Heroku*

2025

- Collaborated with a team to build an **iOS** check-in kiosk app for a University Community Engagement Center (CEC) using **SwiftUI** for the frontend, **Vapor** for the backend and **PostgreSQL** for the database.
- Deployed the system on Heroku with continuous integration, streamlining the daily check-in process for 40+ visitors at the CEC.

### System Unit Testing | *JUnit, Mockito, Java*

2024

- Collaborated with a partner to implement a sample rental system using TDD principles and SDLC concepts, developing unit tests for classes with JUnit and Mockito to achieve 90% code coverage.

## TECHNICAL SKILLS

- **Languages:** Java, Python, C, Javascript, SQL, R, Swift
- **Technologies & Concepts:** MS Office, Linux, GitHub, Postman, HTML5/CSS, JUnit, Mockito, Selenium, Git, Agile, Docker, Flyway, Spring Boot, Postgres, Jira, Heroku, Streamlit, Flask, numPy, Plotly