

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, 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 – Jun 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 RESTful 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.

Student Research Programmer

May 2024 – Aug 2024

University of Pittsburgh / FACETLab

Pittsburgh, PA

- Collaborated with the research team to design an AI-driven information literacy tool using **NLP** and **HCI** methods, aiming to improve digital accessibility for people with accents.
- Adapted a spoken dialogue system NLP models to reduce algorithmic bias, with an aim of increasing the recognition accuracy of diverse accents by 22%.
- Conducted usability testing sessions with 30+ participants, analyzing results to guide future improvements in natural language understanding.

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 the 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.

TECHNICAL SKILLS

- **Languages:** Java, Python, C, JavaScript, SQL, R, Swift
- **Cloud, DevOps & Builds:** AWS, Docker, GitHub Actions, Render CI, Heroku, Terraform, Gradle, Maven
- **Tools & Concepts:** Linux, Git, Postman, HTML/CSS, Agile, Spring Boot, Flyway, Plotly, Streamlit, Flask
- **Databases:** PostgreSQL, SQL, MongoDB
- **AI/ML:** TensorFlow, scikit-learn
- **Testing:** JUnit, pytest, Mockito, Selenium