

IREOLUWA ALARAPE

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EDUCATION

Carnegie Mellon University

Bachelor of Science in Information Systems

GPA: 3.93/4.0

August 2020 - May 2025

Pittsburgh, PA

Relevant coursework: Principles of Imperative computation, Matrix Algebra, Databases, Concepts of Mathematics, Designing Human-Centered Software, Fundamentals of Programming.

WORK EXPERIENCE

WRAGBY Business Solutions

React Developer Intern

June 2022 - August 2022

Lagos, Nigeria

- Enabled Lagos companies to collect direct user feedback on products with React Native application.
- Developed experience in modular programming with reusable components pushed to production.
- Utilized Android Studio for development testing and ensured compatibility across multiple devices.

Grand Rapids Christian High School

C.S. Tutor

Aug 2019 - Jun 2021

Grand Rapids, MI

- Crafted lesson plans for 30+ middle & high school students based on the APCS curriculum.
- Led students to proficiency in Java, including basics of OOP, abstraction, and proper style.
- Guided students through final personal projects.

PROJECTS

Portfolio Site 🌐

Winter 2022

- Built interactive portfolio site from scratch with **React**, JSX, HTML and Tailwind CSS.
- Optimized site loading speed by 80% using custom hooks, lazy/asynchronous loading and proper package management.
- Tested site across browsers and devices to ensure mobile responsiveness and cross-browser compatibility.

Youkaryote 🌐

Spring 2022

- Researched and implemented hexagonal-based RTS game in **Python** to teach the basics of cell biology.
- Engineered pseudo-random map generation by adapting Cellular Automata and Prim's Shortest Spanning Tree algorithms to a hexagonal-based map.
- Coded complex A.I. behavior with Dijkstra, A*, and Monte-Carlo algorithms.

ÉDÉ

Summer 2020

- Developed full-stack application that generates schedules to facilitate language learning.
- Created back-end with Microsoft Azure database, employing **Flask** and **SQL** to handle connecting and querying the database respectively.
- Leveraged **JavaScript** to curate personalized schedules based on user goals.

ACTIVITIES

Scotty Labs

Software Developer

Aug 2022 - Current

Pittsburgh, PA

- Utilize typescript to engineer technological solutions for the CMU community.

The Tartan

Photo Editor

Sep 2021 - Current

Pittsburgh, PA

- Serve as professional field photographer and photo editor for campus-related events.
- Over 4,000 copies of photos printed and read by the CMU community.

SKILLS

Software: Python, C, React, SQL(Postgres), MongoDB, C#, Java, Git, HTML/CSS.

Professional: Public Speaking and Debate, User Research.

Language: English and Yoruba (Native), French (Fluent).