Daniel Okafor

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Computer Science graduate building web services in TypeScript and Python

Profile

Computer Science graduate (First, University of Manchester) with a 12-week software engineering internship and several shipped side projects. Comfortable across TypeScript, Python and SQL, writes tested code and enjoys working in small agile teams.

Education

BSc Computer Science, University of Manchester

First | Manchester | Sep 2021 – Jun 2024

- Modules: Algorithms and Data Structures, Distributed Systems, Databases, Software Engineering
- Final-year project: real-time bus arrival app (85%)

A-levels, Altrincham Grammar School

A*A*A | Altrincham | Sep 2019 – Jun 2021

- Mathematics (A*), Computer Science (A*), Physics (A)

Experience

Software Engineering Intern, Brightloop Analytics

Manchester | Jun 2024 – Aug 2024

- Built a REST endpoint in Node.js and TypeScript that let customers export reports as CSV, used by around 200 accounts in its first month.
- Wrote unit and integration tests that raised coverage on the reporting service from 54% to 71%.
- Reduced a slow dashboard query from 4 seconds to under 1 second by adding an index and rewriting a join in PostgreSQL.
- Took part in daily stand-ups, code reviews and two-week sprints with a team of 6 engineers.

Peer Mentor, Programming Fundamentals, University of Manchester

Manchester | Sep 2023 – Apr 2024

- Ran weekly lab support sessions for 30 first-year students learning Java.
- Explained debugging techniques one-to-one, helping students fix their own code rather than giving answers.

Projects

Bus arrival tracker

React, TypeScript, Python, public transport API | 2024

- Built a web app showing live bus arrivals for 1,500 Greater Manchester stops, with a Python service caching API responses.
- Deployed with Docker and GitHub Actions; used by 60 students during testing.

Hackathon: food waste matcher

Team of 4, 24-hour hackathon | Nov 2023

- Built the backend API in Flask that matched surplus food listings to nearby charities; placed second of 22 teams.

Skills

TypeScript, JavaScript, Python, Java, SQL and PostgreSQL, React, Node.js, Git and GitHub, Docker, Unit testing (Jest, pytest)