

Andrea Anikwe

Software Engineer

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Education

Computer Science BSc | University of Leicester

SEP 2022 - JUN 2025

Second year weighted average of **78.48 (First)**

First year weighted average of **71.91 (First)**

A-level | Townley Grammar School

SEP 2020 - JUN 2022

Computer Science - **A*** Economics - **B** Physics - **C**

GCSE | St. Columbas' Catholic Boys' School

SEP 2016 - JUN 2020

9 GCSES **A* - B** including Mathematics - **A** English language - **B** English literature - **B**

Technical and Soft Skills

Technical: Python Java Javascript HTML & CSS React React Native Problem solving

Data structures & Algorithms Github SQL Spring Boot

Soft: Communication skills Teamwork Multilingual(Fluent in Italian) Time management

Organization Dependability

Projects

Chatterbee | React, MongoDB, Express, Node.js, Socket.io

- Developed a full-featured real-time chat application for 40+ users, enabling seamless communication with 20% faster message delivery through React, Express, and Socket.io.
- Utilized React.js (Hooks, Context API) for dynamic front-end UI, Express.js with middleware for secure API routing, and JWT for user authentication. Implemented database management with MongoDB, optimized schema design, and ensured ACID compliance, leading to a 20% improvement in query performance.
- Designed and implemented a RESTful API server to allow the user information, conversations and messages to be stored

Guitar Tuning Algorithm | Python, NumPy, Matplotlib, Wave

- Developed an advanced guitar tuning tool using Python to assist guitarists in achieving precise tuning.
- Applied autocorrelation to calculate the periodicity of the signal and detected the fundamental frequency by finding the peak of the autocorrelation function.
- Visualized both the raw signal and its autocorrelation using Matplotlib, providing a clear graphical representation of the signal and the tuning status.

Leadership and Extra-Curricular Experience

Computer Science Course Rep | University of Leicester

OCT 2023 - JUN 2024

- Gathered feedback from 150+ computer science students, resulting in a 10% improvement in student satisfaction by addressing curriculum gaps.
- Collaborated with fellow course reps to resolve academic and administrative issues raised by students.
- Distributed important information, updates, and announcements to fellow students.

Corporates & Tech Academy | SEO London

SEP 2023 - SEP 2023

- Opportunity to hear from and engage with speakers from firms such as Google, Spotify, Fiserv & Sky.
- Engaged in a series of comprehensive workshops focused on various aspects of personal and professional development.
- Attained knowledge on the art of personal branding, refining my understanding of how to effectively present myself in a competitive job market.

DEV Lab | Sky Studios

JUL 2023 - JUL 2023

- Enhanced programming and software development expertise through hands-on learning in workshops provided.
- Participated in various talks, including those on building high-performance software with low-code tools and creating a personal AI agent.
- Gained tech industry insights and expanded my professional network by connecting with 40+ experts and peers in the field.

Computer Science Ambassador | Townley Grammar school

SEP 2021 - JUN 2022

- Collaborated with teachers and peers to implement positive changes, resulting in an enhanced subject engagement and improved resources.
- Coordinated and organized academic events and workshops for more than 100 students, promoting a sense of community within the computer science department.

Certificates

Software Engineering Virtual Experience | J.P Morgan

JUL 2023 - JUL 2023

- Implemented JPMorgan Chase's open-source library to generate a live graph that displays data feeds clearly and visually appealingly for traders to monitor.
- Set up a local development environment by downloading the necessary files, tools, and dependencies.
- Fixed broken files in the repository to ensure the web application output correctly.