Isaac Walsham

BSc Computer Science – 2nd Year Student at the University of East Anglia

isaacwalsham.com – isaac.walsham@gmail.com

EXPERIENCE

University of East Anglia, Norwich— *Research Assistant*

Assisted with an AI-driven Python development project for the University of East Anglia, focusing on algorithm design, debugging, and educational application.

September 2025 - Present

David Lloyd Leisure, Norwich — *Lifeguard*

Responsible for ensuring pool safety, supervising members, and maintaining high health and safety standards; transferred from Colchester to Norwich while undertaking undergraduate studies.

September 2024 - Present

EDUCATION

University of East Anglia, Norwich— *BSc Computer Science*

September 2024 - July 2027

PROJECTS

Search Engine Research Task - UEA
- Designed and implemented a general purpose search engine in Python
- Conducted research with different search engine optimisation techniques
- Wrote a research paper outlining my findings
- Please see my GitHub to learn more, this is by far my most challenging work to date

Examination Database System — *UEA*

- Designed a PostgreSQL database for managing student exam entries and results
- Developed SQL transactions and integrity constraints for inserts, deletions, and updates
- Built a Python GUI to support grade entry, exam scheduling, and report generation
- *Tech used: PostgreSQL, SQL, Python (Tkinter)*

SKILLS

Programming Languages:

Python, Java, C, C++, JavaScript, SQL, PostgreSQL

Web Development:

JavaScript, HTML, CSS, React, Node.js, Express.js

Software Engineering:

Object-Oriented Programming , Data Structures and Algorithms, Software Design, System Architecture, Version Control (Git/GitHub)

Professional Skills:

Team Collaboration, Technical Communication, Problem Solving, Adaptability, Time Management

CERTIFICATIONS

Harvard CS50 - Introduction to Computer Science