

# Isaac Walsham

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

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## 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

