

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.

October 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

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)

Arcade Management System — UEA

- Created a Java system to simulate an arcade, customer accounts, and transactions
- Used OOP principles to build game hierarchies and apply discount/age logic
- Processed real-time interactions from structured file input
- Tech used: Java, File I/O, OOP, Custom Exceptions

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