

# 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