

Isaac Walsham

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Education

University of East Anglia – Norwich, UK

BSc Computer Science | Expected: 2027

- Predicted First-Class Honours
- Relevant Modules: Foundations of Data Science, Information Retrieval
- Completed: Harvard CS50x – Introduction to Computer Science

Projects

CMPS Examination Database System

- 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 Simulation

- Created a Java system to simulate arcade operations, 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*

Experience

Lifeguard

Colchester Leisure World, David Lloyd Clubs Norwich, CRGS, Parkdean Resorts

Apr 2022 – Present

- Maintained safety and emergency readiness across multiple locations
- Developed teamwork, reliability, and high-pressure communication skills

Technical Skills

Languages: JavaScript Python, Java, SQL, C

Tools: VSCode, Git, PostgreSQL, pgAdmin, Terminal

Concepts: OOP, File I/O, GUI Design