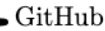


# James Espinosa

 GitHub

## EDUCATION

**University of Nottingham, BSc Computer Science (Hons)**

**Sep 2025 — Jul 2028**

Current Modules: Programs and Algorithms, Maths for Computer Scientists 1, Computer Architecture, Assembly Language, Networks, Introduction to Software Engineering, Fundamentals of AI, Maths for Computer Scientists 2, Programming Paradigms

## EXPERIENCE

**University of Nottingham Coding Club Mentor**

**Jan 2026 - Present**

- Mentoring & understanding Codeforces, Leetcode, Kattis questions
- Currently going over easy Leetcode questions, understanding DSA (arrays).

**PwC Virtual Work Experience**

**Jul 2024**

- Selected along with 3000 students to participate in their 3 day work experience
- Shadowed Degree Apprentices & employers on client work
- Invited to their London Office in September 2024 for an insight day

**ARM's Technological Work Experience**

**Mar 2024**

- Understood how ARM chips worked, why companies switched to their CPU's

## PROJECTS & COMPETITIONS

**QR Code Generator | Python, qrcode**

**Jan 2026**

- Converted links to a qr code .png, saved inside a folder
- Used to advertise websites, e.g, my portfolio website

**Snowball Stacking Project (UoN GameJam 1st Place) | Unity, C#**

**Dec 2025**

- Worked as a team of 4, creating a snowball stacking game in Unity
- Worked on the UI, main menu screen, assets, physics (snowballs rolling & collision)

**Personal Portfolio Website | HTML, CSS, JavaScript**

**Nov 2025**

- Holds all of my projects & information about me
- Made to learn about HTML, CSS, JavaScript outside of UoN's course

**Raspberry Pi ChatBot (UoN Hackathon) | Python, json, streamlit**

**Oct 2025**

- Worked with a Team of 4 to create a working AI Chatbot running through Raspberry PI
- Worked on Front-End software to create a UI to input a text prompt, linking it to back-end and ollama, displaying a response and uses a .json file to display all chat history with a medieval ChatAI

**Nottingham Annual Coding Competition | Python**

**Sept 2025**

- 21st out of 34 teams in the programming competition
- Worked as a team of 4, completing 4/13 questions
- Each question was initially reasoned out, finding hints before coding it fully. If we couldn't find a solution, we'd redo the entire question with a different idea or move on to the next one.

**Degree Query Application | Python, tkinter, sqlite3, hashlib, os, re, abc, csv**

**Sept 2024**

- A prediction program finding the users probability of getting into any university or Degree Apprenticeship, using my school's data and made up data (in compliance with GDPR rules) saved onto a CSV file
- Usernames and passwords were hashed using **SHA256** so it could not be read in plaintext or decrypted if hackers got into the database.

## SKILLS, ACTIVITIES, HOBBIES

**Languages:** Java, Python, SQL, HTML, CSS, JavaScript, C

**Developer Tools:** GitLab, GitHub, Visual Studio Code

**Interests:** Reading fictional books, cooking.