

James Espinosa

[GitHub](#)

EDUCATION

University of Nottingham, BSc Computer Science (Hons) 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	Sep 2025 — Jul 2028
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EXPERIENCE

University of Nottingham Coding Club Mentor <ul style="list-style-type: none">Mentoring & understanding Codeforces, Leetcode, Kattis questionsCurrently going over easy Leetcode questions, understanding DSA (arrays).	Jan 2026 - Present
PwC Virtual Work Experience <ul style="list-style-type: none">Selected along with 3000 students to participate in their 3 day work experienceShadowed Degree Apprentices & employers on client workInvited to their London Office in September 2024 for an insight day	Jul 2024
ARM's Technological Work Experience <ul style="list-style-type: none">Understood how ARM chips worked, why companies switched to their CPU's	Mar 2024

PROJECTS & COMPETITIONS

QR Code Generator Python, qrcode <ul style="list-style-type: none">Converted links to a qr code .png, saved inside a folderUsed to advertise websites, e.g, my portfolio website	Jan 2026
Snowball Stacking Project (UoN GameJam 1st Place) Unity, C# <ul style="list-style-type: none">Worked as a team of 4, creating a snowball stacking game in UnityWorked on the UI, main menu screen, assets, physics (snowballs rolling & collision)	Dec 2025
Personal Portfolio Website HTML, CSS, JavaScript <ul style="list-style-type: none">Holds all of my projects & information about meMade to learn about HTML, CSS, JavaScript outside of UoN's course	Nov 2025
Raspberry Pi ChatBot (UoN Hackathon) Python, json, streamlit <ul style="list-style-type: none">Worked with a Team of 4 to create a working AI Chatbot running through Raspberry PIWorked 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	Oct 2025
Nottingham Annual Coding Competition Python <ul style="list-style-type: none">21st out of 34 teams in the programming competitionWorked as a team of 4, completing 4/13 questionsEach 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.	Sept 2025
Degree Query Application Python, tkinter, sqlite3, hashlib, os, re, abc, csv <ul style="list-style-type: none">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 fileUsernames and passwords were hashed using SHA256 so it could not be read in plaintext or decrypted if hackers got into the database.	Sept 2024

SKILLS, ACTIVITIES, HOBBIES

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

Developer Tools: GitLab, GitHub, Visual Studio Code

Interests: Reading fictional books, cooking.