James Espinosa

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Education

University of Nottingham, BSc Computer Science (Hons) **Sep 2025 - Jul 2028**

- Predicted First Class (1:1)
- Relevant Modules: Computing in ANSI C, Object-Oriented Programming, Assembly, Networks, Software Engineering, Discrete Mathematics, SQL and Websites, Machine Learning

Experience

Classroom 42 | Software Engineer Intern **Jun 2026 - Present**

- Supported Migration of **500**+ schools from the PE Classroom to Classroom 42, improving page load performance by **50%** from WordPress to Vercel
- Fixed numbers outputting LaTeX errors in the exam practice tool
- Built automated tests to prevent regressions in core exam practice workflows

Practera | Project Manager Intern **Apr 2026**

- Oversaw **5** other students to create a report for a client
- Researched LLM use cases, data privacy risks, and competitor positioning
- Organised Zoom meetings to receive feedback on our report, **80%** of it being positive

Aspiring Professionals in STEM (APSTEM) | Technology Ambassador **Jan 2026 - Present**

- Hosted an online Computer Science webinar to **70**+ A Level students, **40%** applying for university
- Covered core modules, showing software and hardware examples to help understand fundamentals
- Discussed jobs relating to degree e.g, software engineering, cybersecurity, AI research

CashMart | Sales Assistant **Jul 2023 - Feb 2025**

- Proactively communicated with customers to help understand our products, with **10%** returning to shop again at least **once** to buy it or a different product
- Restocked every shift so shelves weren't empty, generating an extra **£100-£500** per week

Projects & hackathons

Stream Mind | 1st, 2nd, 3rd @ Gradium, Google, Overall: {Tech: Europe} | Next.js, TypeScript

- Developed a hands-free speech-to-text extension for vlogging streamers to prevent outsourcing
- Creates polls, saves **15** second videos via audio commands using Gemini's API
- Integrated YouTube upload flow with visibility settings: public, unlisted, private

Belciti | Best Use of Data, Hudson River Trading @ HackBelfast

- Developed a city planner for Belfast to place down infrastructure predicting future problems
- Sanitised **11** datasets from 2016-2026 including NISRA, Kaggle, Belfast City Council
- Used a time-series analysis forecast with **Random Forest** to predict the next **10** years

GRID | 1st Place, HackLondon '26 | Python, CesiumJS, Vercel

- Built and developed a digital twin of the UK's electricity grid, using Cesium and Vercel
- Used National Grids API to display **276** substations in the **East Midlands** displaying a **24 hour** MVA usage **over 7 days**
- Created plottable data centres and wind farms for plotting to view future electricity straining
- Engineered a Flask pipeline to backtest **7-day** scenarios
- Used Gemini's API to generate a PDF report of an overall review

Query a Degree | Python, tkinter, sqlite3, hashlib, csv

- Built an admissions predictor, storing **200**+ students information from **my school** using CSV
- Hashed using **SHA256** to avoid plaintext information being shown if the database gets leaked

Achievements, skills & hobbies

Languages: Java, Python, SQL, HTML, CSS, JavaScript, C, TypeScript
Tools: Git, GitLab, GitHub, Visual Studio Code, Jupyter, SQLite, Vercel, PostgreSQL, Linear
Interests: Fiction, Reading, Tennis, Japanese