

James Deal

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[Github](#) | [LinkedIn](#) | [Website](#)

Experience

Vistra | Hong Kong

AI/Data Engineer Intern | 07/2025 - Present

- Full stack: Node.js + TypeScript / React app development.
- Developing REST API's.
- AWS serverless architecture.
- Optimising and exploring new approaches for bespoke AI extraction tools.
- Legal entity management system development.
- Working in an Agile team and taking part in sprint planning, regular syncs, etc.
- Heavy git usage for branching, pull requests, merging conflicts.

Digital & Technology Services, University of Nottingham | United Kingdom

Senior IT Support Assistant | 08/2025 - Present

- Supervising IT support agents on shift.
- Actioning MFA resets, account resets, etc.
- Supporting the resolution of complex IT issues.
- Roaming support and check-ins across multiple help-desk locations on campus.

Digital & Technology Services, University of Nottingham | United Kingdom

IT Smart Bar Assistant | 09/2024 - 06/2025

- Face-to-face help-desk and remote IT support.
- Software troubleshooting, MFA resets, networking, escalation to hardware repair scheme.
- Worked in a team of IT agents who collaborate to solve issues.

EY | Hong Kong

Assurance Intern | 10/2022

- Worked on assurance check automations.
- Python and Pandas based.
- Accurate and efficient scripts were the main priority.
- Used to audit several Asian banks.

Projects

[AR Magazine Covers](#) - Python-based AR

Allows for three detection methods: Aruco markers, key-point detection, and template matching. This includes my own key-point detection algorithm to determine which magazine is being seen on camera.

[Personal Website](#) - Retro Computer Desktop Theme

HTML, CSS, JS. Deployed with GitHub Pages. Supports window resizing, dragging desktop icons, 'poweroff', pseudo mail-client, some hidden easter-eggs.

[Letters Website](#) - Simulates Physical Letters

Enables users to send letters back and forth with time delays as if a 'real' letter. Required careful database design, SQL, HTML, CSS and PHP. Includes front-end animations.

Coursework

[UniCare](#) - Mental Health App

Working in a team of 8, we created a bespoke mental health app in Flutter which interfaces with a Rasa-based backend to provide a personalised chat-bot, as well as mental health games, journaling, and more.

[Connect Four MiniMax AI](#)

MiniMax-based game tree algorithm for playing Connect Four. My partner and I received a joint first ranking in the class for this project; with a 98% grade.

[Operating System Simulator](#)

C-based OS simulator which handled program queues, process creation, scheduling and time slicing for execution on a machine emulator.

Education

University of Nottingham | United Kingdom

Bachelors of Science BSc (Hons), Computer Science | 06/2026

- Current average weighted grade: 75%+
- Module highlights:
 - 94% in Languages and Computation.
 - 78% in Algorithms, Data Structures & Efficiency.
 - 93% in Programming & Algorithms.
 - First-class grades in Functional Programming modules 84%(intro)/70%(advanced).
- Active member of the Triathlon society as well as HackSoc and CompSoc.
- Computer Science Mentor Scheme:
 - Mentored a group of 12 students in my 2nd year.

Kellett School, British International School | Hong Kong

A levels & GCSEs | 06/2023

- School Prefect:
 - Computer Science Ambassador.
- Media team:
 - Events video editor (Adobe suite / Premiere Pro), live multi-camera operator, photographer.
- A Levels:
 - Extended Project Qualification - A*Computer Science Advanced Level - A
 - Media Studies Advanced Level - A
 - Psychology Advanced Level - B
- 10 GCSEs with all grades at least at grade A equivalent, including:
 - Computer Science IGCSE - A*
 - Mathematics IGCSE - 9 (A**)
 - Physics IGCSE - 8 (A*)

Certifications

Harvard CS50P - Programming in Python, [Certified](#)