James Deal

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

First-class performing Computer Science student (graduating in June 2026).
SWE work experience in TypeScript/Node.js, React, AWS and data extraction pipelines.
Looking for graduate positions in Software Engineering.

EXPERIENCE

[Vistra](#) – Financial Services and Legal Entity Management

AI/Data Engineer Intern | Hong Kong　　　　　　　　　　　　　　　　*07/2025 – Present*

- Working on full stack Node.js + TypeScript / React app development.
- Developing REST API endpoints for an AWS lambda document extractor – used internally by the finance department for Stamped ROD, as well as by external clients via the 'Global Entity Platform' (GEP).
- Responsible for the front-end extraction page on the 'GEP' (React) which supports drag and drop of files to be extracted, status updates, and handling upload/download from AWS S3 buckets.
- Improved parallel download performance by testing S3 prefixing strategies; experimented with alternative approaches (Google langExtract) for structured data extraction.
- Reported on AI adoption and automation at Vistra to their parent company (EQT Group.)
- Working in an Agile team and taking part in sprint planning, regular syncs, code reviews.
- Git usage for branching, pull requests, merging conflicts; linked to issue tickets, user stories, and epics.

[Digital & Technology Services](#) – University of Nottingham

Senior IT Support Assistant | UK　　　　　　　　　　　　　　　　*08/2025 – Present*

- Promoted for the 2025/2026 academic year.
- Supervising the assistants on shift, roaming on-call support for more complex support issues.
- Greater access to university systems to action account resets and other support tasks.

IT Support Assistant | UK　　　　　　　　　　　　　　　　*09/2024 – 06/2025*

- Face-to-face help desk and remote IT support.
- Software troubleshooting, MFA resets, networking, escalation to hardware repair scheme.
- Beta testing new features on university platforms and applications.
- Working in a team of IT agents, we collaborate to solve issues together.

[EY](#) – Financial Services

Assurance Intern | Hong Kong　　　　　　　　　　　　　　　　*10/2022*

- Worked on assurance check automations to decrease workload, increase productivity.
- Python and Pandas based scripts which analyse Excel files containing financial year balance reports.
- Accurate and efficient scripts were the main priority for the team. I was given freedom to explore the exact implementation myself as I reported to accountants, rather than software engineers.
- The tools were used to audit several Asian regional banks for balance anomalies.

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, journalling, 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
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).
- 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

INTERESTS

- Triathlon Society.
    - Team-based training. Annual training camp in Mallorca. Friendly races with other universities.
- HackSoc and CompSoc - Member.
- Retro computing and Web1.0.
- Laptop repair and refurbishment.