

# James Deal

University of Nottingham Computer Science.  
Currently working as an IT Smart Bar Assistant, with past experience as an intern at EY.  
Interests include software engineering, artificial intelligence and cyber security.

Resume as of May 2025 - [GitHub](#) - [LinkedIn](#)

## EXPERIENCE

### Digital Technology Services, University of Nottingham — IT Smart Bar Assistant

September 2024 - Present

Working in a team of IT support technicians to solve students' and faculty members' technical problems. This includes in-person 'Smart Bar' stalls across campus, as well as online support via Microsoft Teams. Our goal is to not only focus on solving immediate problems, but also to upskill customer's technical understanding.

### Ernst & Young, Hong Kong — Data Assurance Consulting Intern

October 2022

Managed accounts of national and regional banking corporations. Utilised Python, Pandas and Excel alongside company internal tools to perform assurance checks. I reported any balance mismatches and worked closely with other assurance consultants.

## EDUCATION

### University of Nottingham, School of Computer Science — Computer Science, BSc with Honours

Sept 2023 - Sept 2026

Currently in the penultimate year of study. I have completed modules which cover Java, Haskell, Python, C, Databases, AI, Linear Algebra and more; averaging a first-class grade (81% average achieved.)  
My current elective modules are Artificial Intelligence Methods and Advanced Functional Programming.

**Computer Science Mentor** — I mentor a dozen first year students; advising on their academic as well as personal issues while transitioning to university life. This involves moderating a student forum online.

### Kellett British International School, Hong Kong — A Levels and GCSEs

August 2013 - June 2023

#### School Prefect - Computer Science Ambassador

Extended Project Qualification - A\*  
Computer Science Advanced Level - A  
Media Studies Advanced Level - A  
Psychology Advanced Level - B

Computer Science IGCSE - A\*  
Mathematics IGCSE - 9 (A\*\*)  
Biology IGCSE - 8 (A\*)  
Chemistry IGCSE - 8 (A\*)  
Physics IGCSE - 8 (A\*)

English Lit. IGCSE- 9 (A\*\*)  
English Lang. IGCSE - 9 (A\*\*)  
Spanish GCSE - 7 (A)  
Media Studies GCSE - 8 (A\*)  
History IGCSE - A\*

## CONTACTS

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## 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.

## CERTIFICATIONS

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

Taught how to use Python to create programs and analyse datasets. My final marked project for the course was a Netflix API analysis tool showing users their most watched shows.

## PROJECTS

### AR Magazine Covers — Python-based AR Application

Allows for three detection methods: Aruco markers, key-point detection, and template matching. Text is digitally projected onto the video in real-time. My client was Kellett School Media Studies dept.

### Letter Website — Full-stack website

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

### Opinion Bot — Twitter API-based bot

Twitter Bot which uses Tweepy and TextBlob modules to automatically reply to users based on the sentiment of their tweets. Uses GPTNeo to reply in auto-generated responses.