

ROBERT CLARKE

COMPUTER SCIENCE MSci STUDENT

CONTACT

📞 +44 7733 587863

✉️ robert@robertclarke.co.uk

🖱️ <https://robertclarke.co.uk>

EDUCATION

COMPUTER SCIENCE WITH AI MSci

2019 - Present

The University of Nottingham

HORNSEA SIXTH FORM

2017 - 2019

- A - Mathematics
- B - Physics
- C - Further Mathematics
- Distinction - Computing BTEC Level 3 Extended Certificate

KEY SKILLS

Web Development

Web APIs

Git & GitHub

Problem Solving

Communication

Teamwork

Teaching and training

Attention to detail

HTML, CSS and JavaScript

PHP

MySQL

NodeJS

Python

Java

WORK EXPERIENCE

Software & Platform Development Intern

Jun 2022 - Sep 2022

bp

- Built an expandable Digital Ethics Impact Assessment application
- Utilised previous full-stack experience and learnt new citizen development techniques
- Gained knowledge, experience and insight into company structure and management

Support Technician

Nov 2021 - Present

The University of Nottingham

- Maintaining servers and their environment in computer science
- Preparing hardware for staff and PhD students
- Resolved issues faced by computer science staff
- Installed and managed asset management software on a virtual server

IT Support Tutor

Sept 2021 - Present

The University of Nottingham

- Communicating effectively with clients to resolve problems and queries
- Working remotely and in-person to efficiently solve issues, or redirecting them to the appropriate authority

Full-Stack Development Intern

Jun 2021 - Sept 2021

Synthetic Biology Research Centre

- Planned, developed and tested an extensible system for programmatically generating modular plasmids
- Produced a custom WordPress block and plugin, to allow site administrators to modify, add and delete modules on the system
- Documented my development and produced instructional documentation on the final product

Full-Stack Web Developer

Nov 2018 - Present

INK Memorabilia

- Determined coding requirements for site creation, including e-commerce capability, security and specialised scripts
- Optimised web assets for speed and performance
- Designed, implemented and maintained web pages, APIs and functionality for continuous improvement

C / C++

Microsoft PowerApps

Microsoft Dataverse

Haskell

Mathematics

Hobbyist Electronics

Video & Image Editing

Customer Service

Cash register operations

Full UK driving license

EXTRA CURRICULAR

Love camping, climbing mountains and hiking

Enjoy mountain and road cycling

Bouldering

Making and drinking espresso-based coffee drinks

In the summer of 2018 I walked the Coast to Coast with friends, raising money for Alzheimer's society

Helped build a dining shelter for deprived children in Cambodia, and taught them simple electronics and programming

Attended Tech Camp three times

Attended filmmaking camp

Assistant Electronics and Programming Teacher

Jul 2018 - Aug 2018

UK STEM LIMITED

- Supported and taught hands-on electronics and programming to children between the ages of 7-12
- Summer course for children, funded by the University of Hull
- Helped children create their own electronics projects using the Crumble microcontroller and its own Scratch-like programming language

Store Assistant

Nov 2016 - May 2020

D & S Retail

- Assisted customers with prompt and polite support in-person and over the phone
 - Checked identification for proof-of-age and refused alcohol, tobacco, and lottery sales to under-age customers
 - Balanced and replenished cash machine and tills
 - Worked hygienically with food in the delicatessen
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PROJECTS

People counting and Social Distancing Monitor

- University group project - I performed the role of Git master and one of the main developers
- Software that monitors live cameras, counts people in the scene, and estimates whether or not they're social distancing
- Written in well-structured object-oriented Python

Travelling Salesman Problem Hyper-Heuristic

- University individual coursework
- I implemented my own heuristics for modifying the currently TSP route
- I created my own hyper-heuristic used for finding an optimal solution to the Travelling Salesman Problem

Minecraft Bot for committing Grand Theft (ask me about this)

- Built minecraft bot in Node.js for automatically populating and updating a custom relational database
- Created front-end for user

Humber Bridge Toll Notifier

- Python web-scraper project that checks for outstanding bridge tolls
- Sends SMS text to configured phone number, to remind user of toll
- Utilises Twilio API for sending SMS texts

OS From Scratch

- Created two basic operating systems from scratch
- Used a mix of assembly code and C