Dylan BARKER

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EDUCATION

King's College London *MSci Computer Science*   *Sep. 2020 – May 2024*

- **Societies:** FinTech Society (Financial Technology), Tech Society

Brampton Manor Academy *A Levels*   *Sep. 2018 – Jun. 2020*

- **A*A*A*:** Computer Science, Mathematics, Further Mathematics

Bishop Challoner Catholic Federation of Schools *GCSEs*   *Sep. 2013 – Jun. 2018*

- **9 GCSEs, grades 9-6** including English and Mathematics 9-8

PROJECTS

Conway's Game of Life *Java, University of Cambridge*   *Nov. 2020 – now*

- Achieving a greater comprehension of Java by working through Cambridge's coursework alongside current studies
- Designing a graphical interface with Java Swing, using command line Git to push 14 finished ticks to a repository

Crypto-Steganography *Python, Brampton Manor Academy*   *Sep. 2019 – Jun. 2020*

- Programmed a variation of secure steganography, by randomly scattering input data over a selected cover image
- Formed the interface with object-oriented tkinter, displaying various widgets and a label testing over 50 inputs

EXPERIENCE

Maths and Programming Tutor *MyTutor.co.uk*   *Sep. 2020 – now*

- Advising pupils from GCSE to A Level, helping them gain a greater understanding of their subject for exams
- Boosting students' confidence by developing lesson plans on tackling their difficulties and keeping them on track

Work Experience Participant *City & Guilds*   *Mar. 2017*

- Attained a grasp of the finance department by venturing across sections from accounts payable to payroll services
- Executed tasks such as allocating 100s of payments using SAP and adjusting formulas in risk management reports

EXTRACURRICULARS

Here2Help *Python, UCL Accessibility Hackathon*   *Sep. 2020*

- Being selected as one of 70 participants, teams were instructed to create a solution to everyday accessibility needs
- Led a team of 4 and engineered a web app using Flask and a database to match volunteers to disabled people

Student Volunteer *Imperial College London*   *Jun. 2019*

- Amplified Imperial College's outreach team by assisting a workshop aimed at young people aged 11 and above
- Instructed visitors through building simple electronic devices that play sound controlled by hand movement

SKILLS

- **Languages** Native in English, <u>Intermediate</u>: Java, Python <u>Basic</u>: C, HTML
- **Technologies** Previously worked with Flask, Git, Pygame, tkinter, Swing

ACHIEVEMENTS

- **Certified Microsoft Office Specialist** Microsoft Office (2013) Word, PowerPoint, Excel
- **BEBRAS UK Challenge** Obtained Distinction, top 5 in the cohort (2018)
- **British Informatics Olympiad** Placed top 10% in the UK, 1st in the cohort (2018-2020)