

PERSONAL PROFILE

- **High-achieving computer science & mathematics student: first class marks**
- **One of top 10 first year computer scientists at Bristol University 2024**
- **Excellent programming and numerical skills**
- **Experience in software engineering, AI and data analysis**
- **Confident team-worker, problem-solver and communicator**

EDUCATION

2023 – present	BSc Mathematics and Computer science, University of Bristol, UK First class degree marks in first year	
2018 - 2023	Beaumont School, Austen Way, St Albans	
A-levels	Mathematics	A*
	Further Mathematics	A*
	Computer Science	A*
	English Literature	A
GCSEs	9 GCSEs at grade 9	

KEY SKILLS, ACHIEVEMENTS & AWARDS

- **Strong programming skills**
 - Experience in Rust, Java, JavaScript/TypeScript, R, Python, C and Haskell
 - For my first-year project, I implemented the Monte Carlo Tree Search algorithm in Java for the Scotland Yard board game.
 - Currently leading my second-year Software Engineering Project, which involves using the browser to simulate and benchmark algorithms involving robotic self-stacking boxes.
 - Worked on and maintain several other open-source projects involving a variety of tools and languages (see ashbythorpe.com/projects).
- **Data analysis**
 - **Financial data analysis project:** working independently during Sixth form, I built an investor tool that analyses historic stock prices and a predictive model of future stock performance.
- **Outstanding numerical skills:**
 - Consistent academic excellence in mathematics
 - 2018-2023: Progressed to second round of UK Maths Trust Senior mathematical challenges
- **Excellent communication and people skills**
 - High grade in English A level
 - Finalist in school public speaking competitions
 - Leadership, teamwork and communication skills developed through position at Camp America 2024 and two years' volunteer work at Oxfam
 - Gold Duke of Edinburgh Award completed 2023

- Maths leader at school: led mentoring program for students

WORK EXPERIENCE

- **June – August 2024** **Eden Village Camp, Putnam Valley, New York**
Lifeguard, swim instructor and camp counsellor for children aged 8-15
- **Oct 2018 – 2023** **Oxfam, 161 Hatfield Road, St Albans, AL1 4LB**
Weekly volunteer work, including interacting with customers at the till

OTHER INTERESTS & INFORMATION

- US and UK citizen
- I enjoy tennis, badminton and swimming in my free time