

**Alex Chitham**

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Term Time address: 7 Stanley Road West, Bath, BA2 3HU

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Personal Profile

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I am a motivated, conscientious, and focused undergraduate looking to challenge myself and develop my IT and working skills in a professional placement. I have a strong IT skill set with a passion for technology, a track record of teamwork and the ability to learn quickly. I am confident that I can make an excellent contribution to any team during my placement.

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Education

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**2021 – 2025**

[University of Bath – Computer Science BSc with Placement](#)

**First Year: 83% Average, First Class**

- Artificial Intelligence – (72%)  
Understanding a range of AI techniques, their strengths, and weaknesses, and applying them to various problems.
- Principles of Programming 1 & 2 – (90% & 97%)  
Looking at common features of programming languages, and advanced concepts, including the basics of multi-threading and GUIs.
- Computer Systems Architecture 1 & 2 – (79% & 71%)  
Understanding computer architectures and their abstractions, from operating systems to distributed systems.
- Discrete Mathematics and Databases – (93%)  
Calculate and reason with sets, functions and relations using the language of set theory.
- Mathematics for Computation – (68%)  
Understanding key concepts in linear algebra, and certain aspects of mathematical analysis with calculus.
- Software Processes and Modelling – (70%)  
Use models and test cases to create software that conforms to a specification.

**Second Year Modules:**

- Data Structures and Algorithms – (93%)
- Foundations of Computation – (85%)
- Fundamentals of Visual Computing – (84%)
- Experiment Systems Project (Year-long Group Project)
- Machine Learning
- Functional Programming
- Comparative Programming
- Human Computer Interaction and User Experience

**2014 – 2021**

[Norton Knatchbull Grammar School](#)

**A-Level:** Computer Science (A\*), Maths (A\*), Further Maths (A\*),  
Physics (A\*)

**GCSE:** Five 9s, three 8s, two 7s, including Maths (9) and English (7)

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## Experience and Skills

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### Summer 2022

#### [The White Lion Pub/Hotel, Tenterden](#)

Serving and waiting on customers helped develop my communication and customer service skills, which also increased my tip percentage. Busy shifts at weekends taught me how to multi-task under pressure, prioritise and improved my ability to make quick decisions.

### Summer 2021

#### [Work Experience at Secretariat \(Forensic Accounting & Investigating Company\)](#)

I prepared spreadsheets to model cash flows for potential new projects by carefully examining relevant data. This improved my analytical skills and taught me how to operate and communicate within a team in a professional workplace. I improved Excel record sheets using Microsoft Power Query, gaining an insight into their business systems and processes.

### 2021 – Present

#### [Tutoring](#)

I worked for both a local tutoring company for 11+ students, and privately through the Tutor Hunt website teaching Maths and Physics. It taught me how to communicate effectively in both a group setting and 1-to-1, adapting my methods to suit a pupil's ability and understanding.

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## Technical Skills and Other Interests

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### Technical Skills

- Competent in procedural and OO programming including Python, C#, C, Java.
- Using Haskell for functional programming. Experience with SQL, HTML, CSS, JavaScript.
- Understanding and experience of version control using Git and GitHub.
- Flutter and Dart experience from Volunteering app for a Group Project:
  - Currently completing a course on Flutter and Dart on Udemy for app development.
  - I led the backend team, using Firebase for our database and authentication.
- Agile / Scrum Software Development methods creating an Android app for Group Project:
  - The app tracked daily food intake and retrieved macronutrients using an API.
  - I contributed to front end using XML and backend using Java on Android Studio.
- Waterfall Software Development methods in Individual Project:
  - Used Unity and OOP in C# to make an animated stealth game with ¾ view.
- Used Android Studio, Unity, VS Code, Eclipse, Flutter, Firebase for programming projects.
- Competent in Windows and Mac and experience in Linux (Ubuntu distro) through a virtual machine.
- Experience with Microsoft Office, including Word, Excel, OneDrive, and PowerPoint.

### Interests and Other

- I read the TLDR newsletter, a daily email about the biggest tech stories that day.
- A keen tennis player: represented school and Club teams in regional competitions and coached junior players alongside Head Coach.
- I keep physically active: attend the gym, play tennis, badminton, and table tennis.
- A team player: enjoyed Duke of Edinburgh (achieved Bronze and Silver) and National Citizen Service.
- I enjoy meeting new people and socialising in my free time.
- Full clean driving licence.

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## References

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### Simon Maytum

#### Secondary School Maths Teacher

Norton Knatchbull School

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### Hongping Cai

#### Personal Tutor

University of Bath

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