

# Solomon Varcoe

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## EDUCATION

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### UNIVERSITY OF BRISTOL

2017 - 2021

M.Eng. Mathematics and Computer Science

Predicted 1st

*First year result: 71%*

- Gained valuable experience with programming languages from all paradigms, notably C, Java and Haskell. I especially enjoyed functional programming (in Haskell) due to its mathematical approach which resulted in a high grade (82%).
- Developed a formal understanding of essential mathematic concepts, both pure and applied, which are currently being put into context in second year units such as Multivariable Calculus.
- The transferable skills and algorithmic thinking gained from this degree has allowed me to quickly pick up new languages and concepts. For example, during the summer I developed a personal music visualiser as an exercise to learn JavaScript & HTML.
- Took part in a pair programming module in Java in which I formed strong communication, management and development skills whilst learning industry standard practices e.g Git/Github (version control) and Maven (dependency management).
- Strongly interested in artificial intelligence and machine learning after being introduced to it during the pair programming module, in which my team developed an AI player for a game as an extension (resulting in a first-class mark). As a result, I plan to take modules in this field in subsequent years and have taken relevant maths units (Multivariable Calculus and Probability 2) this year.

Second Year Modules:

Language Engineering; Data Structures and Algorithms; Multivariable Calculus; Methods of Complex Functions; Probability 2; Symbols, Patterns and Signals; Coding and Number Theory; Theory of Computation

First Year Modules:

Functional Programming; Object Oriented Programming; Imperative Programming; Algorithms; Calculus 1; Linear Algebra 1; Probability 1; Analysis 1A; Foundations & Proof; Group Theory

### EXETER COLLEGE

2015 - 2017

Graduated with the following A Levels:

Physics (A\*) Mathematics (A\*) Further Mathematics (A) Philosophy (AS Level) (B)

### CHULMLEIGH COMMUNITY COLLEGE

2010 - 2015

Graduated with 11 GCSES (A\* - C) including:

Mathematics (A\*) Science (A\*) Computer Science (A) English Language (A) English Literature (A)

## TECHNICAL SKILLS

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LANGUAGES:	C	JAVA	HASKELL	JAVASCRIPT	VISUALBASIC	HTML	L <sup>A</sup> T <sub>E</sub> X
MISC:	GIT	WINDOWS	LINUX	ECLIPSE	VISUALSTUDIO	UNITY	OFFICE

## OTHER

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- Member of both the University of Bristol Tennis Club and Computer Science Society.
- Guitar player with a love of blues (received 'Platinum Award' for contributions to the music department at Chulmleigh).
- Appointed 'Senior Prefect' at secondary school, both leading and managing regular prefects.