# Luke**Storry**

Luke@LukeStorry.co.uk | [Phone Number]
Bristol Computer Science MEng Student with a love of the outdoors.

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github.com/**lukestorry**
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## Other Work

### UoB Chief Senior Resident
Supervising a team of Senior Residents as part of the University's ResiLife pastoral welfare system. Developing and maintaining communities within halls, running events, and providing vital support for students in need.

### SWA Head Of Media
Managing a team of eight event photographers, videographers and writers, whilst coordinating with the logistics and marketing teams, to advertise and promote the Student Windsurfing Association.

### CS Outreach Coordinator
Worked with University staff to enhance the department's outreach program, both on open days and visits to local schools. Designed & ran workshops for a variety of ages, with the aim of inspiring the next generation of engineers and software developers.

### Chief Windsurfing Instructor
Led and managed a team of 20 instructors providing tuition to over 300 students at both the 2017 and 2018 SWA Aussie Kiss Festivals.

## Hobbies

### Climbing
Boulder indoors multiple times a week, and starting to move towards outdoor trad-climbing.

### Windsurfing
Won first place in the intermediate fleet at BUCS Nationals 2017, alongside multiple years of experience as an instructor and coach.

### Hiking
Love of mountains and coastal walks, member of UoB expeditions society, and have completed multiple week-long solo hikes along the SW Coast path.

### Kayaking
Regularly surf-kayak, gained 2nd place in Canoe Freestyle at the UK's National Student Rodeo event 2017.

## Education

### University of Bristol                                    2014–2019
MEng Computer Science (Expecting **2.1**)

### Exeter College                                          2011–2014
International Baccalaureate **38**
   - HL: English, Physics, Chemistry, SL: Maths, German, Psychology
A-Level Mathematics **A\***, AS Further Mathematics **A**, AS Computing **A**

## Previous Development Work

### Swanbarton - Software Engineer     `Python|PyUnit|Jira|Docker|Archi`
Successfully delivered, and helped design architectures for, a variety of energy management and trading products, as a member of the research & development team at an energy-storage consultancy.
Given a mixture of legacy code and new designs, my modular, full-stack and test-driven Python code solved problems ranging from cloud-based optimization through to low-level control of industrial batteries.
I also helped transition the software team over to an agile "scrum-ban" approach, by implementing a Jira-based workflow that greatly increased productivity whilst requiring less oversight from management.

## University Programming experience

### Games Project                   `Unity|C#|Scrum Agile|git-flow`
Worked in a team of 6 to develop a complex networked multiplayer game. Designed an efficient algorithm for the procedural-generation of the layout of a city and surrounding map, and built various other aspects of the game.

### Simple_Read              `Javascript|JSON|HTML|CSS|Chrome APIs`
Winning entry to the CS Society's Accessibility Hackathon.
Chrome extension that analyses the reading age of web articles, then simplifies the text to a reading age that is on average 22% lower.

### Web Technologies      `Pug|Node.js|Express|SQL|XHTML|CSS|Heroku`
Developed a simple web store, with a range of windsurfing products dynamically loaded from a database, a user accounts system, a cart stored in cookies, a search feature, and a design-your-own-sail app.

### Systems Security     `Vagrant|C|GDB|SQL|Bash|Assembly|Netwox`
Executed and developed defences against a range of security vulnerabilities.

### Machine Learning         `Python|NumPy|SciPy|Matplotlib`
Used statistical analysis, modelling and inference for the classification and de-noising of complex datasets, and wrote two scientific reports on the use of those techniques.

### High Performance Computing           `C|OpenMP|BASH`
Designed, implemented and analyzed high performance parallel versions of matrix-operation algorithms on the Blue Crystal supercomputer cluster. Serial speedups of 26x, and 150x on 16 parallel cores.

### Software Product Engineering    `Firebase|Node.js|HTML5|Android`
Five-member team prototyped new media storage and retrieval systems for atBristol's exhibits, whilst streamlining booking and entry to the museum.

### Human-Computer Interaction      `Python|Tkinter|SPSS|LaTeX`
Planned, built, and conducted a psychological experiment, comparing the input speeds of touchscreen vs mouse.

### Image Processing and Computer Vision    `Python|OpenCV|LaTeX`
Applied a variety of Computer Vision algorithms and methods to detect dartboards in noisy images, with an F1-score of 125x the stock VJ method.