Harry Waugh

Flat 4A, 46-48 Queen Charlotte St, Bristol, BS14HX | 07714190277 | hw16471@my.bristol.ac.uk | github.com/hw16471

Profile

A driven, ambitious and rounded final year student at the University of Bristol, armed with a wealth of technical knowledge, supported by a firm mathematical base and a passion for technology.

Education

UNDERGRADUATE COMPUTER SCIENCE | 2016 - PRESENT | UNIVERSITY OF BRISTOL

- Average Mark at End of 2nd Year 65%
- Symbols, Patterns, and Signals 83% - (2nd Year Unit) Processing and Modelling Digital Data
- Software Product Engineering 72% - (2nd Year Unit) Software Project for Outside Client and Development Lifecycle
- Concurrent Computing 61% - (2nd Year Unit) Concurrent Algorithms, Parallel Programming in XC, Linux Kernel Implementation
- 3rd Year Highlights – Advanced High-Performance Computing, Applied Security, Computer Vision, Machine Learning

A2/AS LEVELS (A* - B) | 2015 - 2016 | RICHARD HUISH COLLEGE, TAUNTON

- A2 Mathematics (A*), A2 Further Mathematics (A), A2 Computing (B), AS Physics (B)

11 GCSE (A* - B) | 2009 - 2014 | THE CASTLE SCHOOL, TAUNTON

- Including A* in Mathematics, and A English Language

Experience

PROJECTS

- **Consent Giving Application** for We the Curious, Bristol. Worked centrally within a team of 6 students to develop an application for visitors to give consent for their data, this was voted as the best project in year at the CS in the City event. Personally responsible for the backend of the application. Key Technologies: Java, Spring, MYSQL, Thymeleaf.
- **Operating System Kernel**. Built a capable system kernel for an ARM Cortex-A8 target platform. The kernel implemented a scheduling algorithm, that could switch program contexts to simulate the concurrency of an OS. Implemented various POSIX system calls, allowing for Inter-Process Communication to solve the Dining Philosophers Problem. Key Technologies: C, Assembly.
- **Game of Life**. Worked with a colleague to develop a concurrent multi-threaded program for an xCore-200 Explorer board which simulates John Conway's 'Game of Life' on an image matrix. Key technologies: XC.
- **Activity Tracker Using Accelerometers and GPS**. Currently researching and developing a system to improve activity tracking using a smart device's accelerometer by fusing it with recorded GPS data.

Skills & Abilities

- Programming Languages - Proficient in Java and C, Experience in Python, C#, Haskell, XC and C++(Self Taught)
- Worked with web technologies Spring Boot, Thymeleaf alongside a MySQL database.
- Ran and came 8th in the Dartmoor 50 Mile Ultramarathon, highlighting self-discipline to train and work hard, alongside my drive to never give up.
- Lead a team of six to complete the Ten Tors 55 award, thus showing an advanced ability to work in a team amidst great stress and physical exhaustion.

MATHS TUTOR | BRISTOL TUTORS |ST MARY REDCLIFFE SCHOOL | FEBRUARY 2017 - PRESENT

- Responsible for developing on student's weaknesses and reinforcing their strengths.
- Organised and prepared lesson plans, alongside the academic studies of the first two years of my degree.

References

ANNE BURKE | TEACHER| ST MARY REDCLIFFE

- Email: burkea@smrt.bristol.sch.uk

SION HANNUNA | TUTOR| UNIVERSITY OF BRISTOL

- Email: sh1670@bristol.ac.uk