

Charlie Street

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As a highly driven individual with a strong academic record, I throw myself into any challenge I am confronted with. With extra-curricular experience working in teams, I believe I can add value to any team-based project.

Education

- **University (2014-2018)** Studying MSci Computer Science at the University of Birmingham.
 - Achieved average grades of **94%**, **95%** and **89.5%** in my first 3 years respectively.
 - Won Best in Degree Programme 2014/15 **and** 2015/16.
 - Won BCS Prize for Best in Year 2014/15.
 - Awarded School of Computer Science Excellence Scholarship during first year.
 - Currently in my fourth year at University.
 - I have already completed modules in areas such as Functional Programming, Computer Security, Operating Systems, Machine Learning and Robotics.
- **A Level (2012-2014)** Studied at the Thomas Hardy Sixth Form, Dorchester.
 - Achieved an A* in A Level Maths, Physics and Computing. I also achieved an A grade in AS Further Maths and Chemistry.
- **GCSE Level (2007-2012)** Studied at the Wey Valley School, Weymouth.
 - Achieved 9 GCSE's: 1 A*, 1 Distinction, 6 As and 1 B.

Technical Skills

Programming Languages

Java	I have a strong level of proficiency, having used Java heavily during my time at university.
Haskell	I have a reasonable understanding of Haskell and the functional paradigm.
C	I've had experience with memory management, pointers and some kernel programming.
C++	I have basic understanding of the C++ class system and templates.
Agda	I can formulate inductive proofs over basic numbering systems and data structures.
OCaml	I have an understanding of the syntax and underlying concepts of the language.
Python	I have familiarity in Python, having made basic GUIs and small AI/robotics applications.
JavaScript	I possess basic knowledge of the language to add functionality to web pages.

Web Technologies

HTML, CSS, XML, JSON I have enough knowledge of these to build basic, functional web pages.

Other

- (Postgre)SQL** I have the competency to define database entities and then query them.
- Git** I have experience using git, having used it for any significant projects I have partaken in.
- LaTeX** I have enough knowledge to produce clear and well formatted documents.
- Matlab** I have a very simple understanding in utilising matrices and writing basic functions.

Projects

- **Dating Chat-Bot for ‘The Gadget Show’** A project undertaken for the television show requiring the creation of a bot to converse in a speed-dating scenario. The goal was for an unknowing subject to choose our bot over a human to go on a date with. I was team leader for the back-end/AI sub-team; I was the majority contributor to the design and implementation of the bot. This forced me to think creatively while under time-pressure.
- **Simulizer** A project initially undertaken for a second year module but continued since. Simulizer is a simulator and visualiser for a MIPS R3000 processor. Working in a team of 5, I was in charge of the back-end, requiring me to write a faithful simulation of the R3000 processor, including a primitive pipeline for execution. This has since been used as a significant teaching aid for the ‘Computer Systems & Architecture’ module at the University of Birmingham. Students were required to write assignments in Simulizer; the assignments were graded using the software.

Extra-Curricular Interests And Experiences

- **Duke Of Edinburgh Award** I have completed all 3 levels of the Duke of Edinburgh award scheme. This has required large amounts of team-work and communication, particularly during expeditions, which involved working in a team of 4 for 4 days on Dartmoor. This has also greatly benefited my leadership skills. I also partook in voluntary work including working in a local charity shop and aiding restoration work along a canal near Gloucester.
- **Music** I am an avid musician, having played the guitar since the age of 12 with interest in many musical genres. This has required great commitment and perseverance. Previously, I have been lead guitarist/backing vocalist for a rock covers band. Being an active member of a band has improved my ability to cooperate well within a group and listen to those around me.

Additional Information

- **BCS** I am currently a student member of the British Computer Society.

References

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