

Helen Louise Crump

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Profile

A first class Computer Science student with a passion for finding creative and concise solutions to interesting new problems.

Education

Degree

1st Class in Second Year with 82%, including 97% in Functional Programming (Haskell), 86% in Software System Components (Java), and 85% in C/C++.

1st Class in First Year with 84%, including 94% in Software Workshop 1 (Java), 92% in Introduction to AI, and 90% in Foundations of Computer Science (OCaml).

BSc Computer Science with Industrial Year (Third Year) – University of Birmingham – 2013-17

A Levels

Mathematics – A*; French – A*; ICT – A*; Further Mathematics – A; General Studies – A.

GCSEs

12 at A* grade including Mathematics, Statistics, ICT, Science, English Language and French.

Technical Skills

Languages

Proficient in Java (including Android development), C# and SQL/PostgreSQL – Intermediate understanding of Haskell, C and C++ – Basic understanding of OCaml.

Web Tools

Proficient in HTML, CSS, XML and JavaScript – Intermediate understanding of JQuery and AJAX.

Tools

Eclipse – Visual Studio – Subversion – Git – MatLab – Adobe Photoshop – GIMP.

Operating Systems

Windows – Linux.

Employment and Work Experience

2016-2016 – Software Engineering Intern at Google

Worked with a team in Android for Work to develop a UI and backend functionality for a new application.

2015-2016 – Software Engineering Intern at Microsoft

Worked with the Bing Related Search team to create and maintain internal tools in order to monitor the relevance of, and user responses to, related search results, as well as sending out statistics to various teams to allow the effectiveness of new algorithms and techniques to be measured.

2014-Present – Running App Development Workshops at University of Birmingham

Occasionally helps to run mobile app development workshops for schoolchildren that show interest in Computer Science; showcases MIT's AppInventor tools to allow students to build their own apps without needing any in-depth programming skills, letting them gain a good understanding of how programs are developed; always receives an excellent response from the students, who get immense enjoyment out of the sessions.

2014-Present – Computer Science Java Demonstrator at University of Birmingham

Has improved confidence and communication skills by aiding first year students to complete their Java assignments, as well as adapting a suitable style of explanation in order to maximise the students' understanding.

2014 – Web Designer for Outreach at University of Birmingham

Built on skills learned in first year module Information and the Web and collaborated very well with other students to rebuild a university-owned website complying with modern standards (HTML5, CSS3) – received extremely positive feedback from the client whose needs we met exactly.

2013-Present – Computer Science Ambassador at University of Birmingham

Represents the Computer Science department at public events in order to promote the courses and department to interested parties; has greatly increased confidence and public speaking abilities after showing guests around the facilities, and is able to tailor topics of conversation appropriately to various different audiences.

Other Skills

Speaks conversational French at a competent level.

Other Achievements

University of Birmingham Computer Science Outstanding Achievement Scholarship

Headmaster's Award for Academic Achievement at A Level

Headmaster's Award for Academic Achievement at GCSE

Participated in the 2014 Universities Business Challenge

Interests

Passionate about seeing live music, reading Stephen King novels, and editing digital photographs.