Helen Louise Crump

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Profile

A software developer at Expedia and first class Computer Science graduate, with a passion for finding creative and concise solutions to interesting new problems.

Education

2013-2017 – BSc Computer Science with Industrial Year at University of Birmingham

1st Class with Honours, including 97% in Functional Programming (Haskell), 94% in Software Workshop 1 (Java), 86% in Software System Components (Concurrency, Networking and Databases), and 85% in C/C++.

2011-2013 – A Levels

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

2008-2011 – 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 Python – Basic understanding of OCaml.

Web Tools

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

Tools

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

Operating Systems

Windows – Linux.

Employment and Work Experience

2017-Present – Software Developer at Expedia

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 mobile 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.

2014-2017 – Running App Development Workshops at University of Birmingham
Occasionally helped to run mobile app development workshops for schoolchildren that show interest in Computer Science; showcased 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; consistently received an excellent response from the students, who gained immense enjoyment from the sessions.

2014-2017 – Computer Science Java Demonstrator at University of Birmingham
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.

2013-2017 – Computer Science Ambassador at University of Birmingham
Represented 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

Interests
Passionate about cooking and baking, reading Stephen King novels, and editing digital photographs.