Bertie Wheen

GitHub | LinkedIn

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I'm an undergraduate with a long-standing interest in Maths, passionate about Computer Science. My interests range from programming language theory to game development.

Skills

- Haskell
- Agda
- Java
- Python
- C++
- C#
- OCaml
- Teaching

Education

2011-2013 *International Baccalaureate at Colchester Sixth Form College*

Computer Science Higher	7
Physics Higher	6
Mathematics Higher	5
Economics Higher	5
English Standard	5
Spanish Ab Initio	6

2013-2016 *BSc at University of Birmingham*

Computer Science	1st (expected)

Awards

Mathematics *Jack Petchey Foundation*

2008	Outstanding Achievement

Junior Maths Challenge *United Kingdom Mathematics Trust*

2008	Gold
2008	Best in School

Intermediate Maths Challenge *United Kingdom Mathematics Trust*

2009	Silver
2010	Gold
2010	Best in School

Music *ABRSM*

November 2008	Grade 5 Music Theory
December 2010	Grade 6 Music Practical (Piano)
March 2012	Grade 6 Music Practical (Alto Saxophone)

IB *Colchester Sixth Form College*

December 2013	Overall Achievement

Experience

??? – ??? *Work Experience with G&T Office Equipment*

October 2013 – November 2013 *Business Challenge with IBM*

June 2014 – September/October 2014 *Research Internship with University of Birmingham*

Over summer I worked with Dr. Dan Ghica – a Computer Science lecturer – on research projects. I worked closely with a PhD student on creating "Floskel" – a call-by-value language, syntactically similar to Haskell, which makes writing distributed programs significantly quicker. This project resulted in a paper that I presented at IFL '14 – a conference held in Boston, MA – and is currently awaiting publication in the post-proceedings. The language was implemented using Haskell and C.

September/October 2014 – Present *Research Internship with University of Birmingham*

I also began work on co-authoring a paper that attempts to formalize memory (de)allocation. Whilst working on this project, the summer came to a close. However, I have continued the work unpaid. My work is primarily proving the paper's lemmas in Agda.

October 2014 – Present *Student Demonstrator with University of Birmingham*

I'm working as a demonstrator for the Foundations of Computer Science first-year module. This has involved developing a framework for automated testing of the students' OCaml programs and helping teach the students.

Interests

- Snowboarding
- Sailing
- Teaching
- Computer Science