

Bertie Wheen

[Site](#) | [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. I constantly strive to write better, more idiomatic code, and to widen my skillset.

Known Languages

- Strong in Haskell and Java.
- Intermediate proficiency with Agda, Python, C++, OCaml, C# and others.

Education

2013-2016 BSc Computer Science at University of Birmingham

Overall (expected)	1 st	Foundations of CS	91%
1 st year average	85.5%	Intro to Software Engineering	87%
Robot Programming	95%	Information and the Web	87%
Java Software Workshop	93%	Language and Logic	86%

2011-2013 International Baccalaureate at Colchester Sixth Form College

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

Awards

BrumHack '14 Bloomberg

October 2014 Best use of the Bloomberg API

IB Colchester Sixth Form College

December 2013 Overall Achievement

Music ABRSM

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

Intermediate Maths Challenge United Kingdom Mathematics Trust

2010 Gold
2010 Best in School
2009 Silver

Mathematics Jack Petchey Foundation

2008 Outstanding Achievement

Junior Maths Challenge United Kingdom Mathematics Trust

2008 Gold
2008 Best in School

References

Available from <http://www.cs.bham.ac.uk/~drg/> or <http://www.cs.bham.ac.uk/~ohf162/>

Relevant Experience

December 2014 – Present *Webmaster for John's Campaign*

I have recently helped to start a movement called John's Campaign, motioning to strengthen the rights of people with dementia in hospital. Amongst other things, I created the campaign's website: <http://www.johnscampaign.org.uk/>. The site is hosted using GitHub Pages.

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. The testing framework is written in a mix of OCaml, Python, Haskell, and shell scripts.

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

Over summer I worked with Dr. Dan Ghica on research projects. I was offered the internship post-completion of the Foundations of Computer Science module, which Dan lectures. 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 for those involved in the implementation of functional languages – 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.

September 2013 – Present *Peer tutoring, supported by University of Birmingham*

Throughout my degree, I have been tutoring fellow students in my year. This has been both on a one-to-one basis, and in group sessions held weekly. I have been endorsed by the university for this, and it has been one of the most enjoyable parts of my degree.

October 2013 – November 2013 *Business Challenge, run by IBM*

June 2010 (2 weeks) *Work Experience with G&T Office Equipment*

Interests

Snowboarding

Originally a skier, I made the switch to snowboarding as a teenager. Since then, I've progressed fairly quickly, and found my second-most prominent passion (after computer science). I go at least once a year, and love it without fail.

Sailing

I grew up on and around the water. I enjoy sailing our ketch *Peter Duck*, dinghy sailing (and – at times – racing), and kayaking. Whether messing around in a dinghy on the River Deben or sailing the yacht across to Europe, I'm always happy on the water.

Teaching

Another love I have is for teaching. In college I would lead sessions with my peers, going over the material covered in lessons. At university, my ongoing peer tutoring (discussed above) brings me a lot of satisfaction. Paid or unpaid, in the computer labs or in the local, there's little I enjoy more than sharing my love for my subject.