

Niamh Walsh

CONTACT

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EDUCATION

University of Cambridge (St John's College) *October 2015 - Present*
BA Computer Science II.i in first two years
Final year dissertation topic: *Evaluating Tone Mapping Operators for Virtual Reality Applications*

King Edward VI Five Ways *October 2008 - July 2015*
12 A* - A at GCSE A*A*A*AB at A Level
A Level subjects: Maths, Further Maths, Physics, Computing, English Literature
Additionally: A in FSMQ, Merit in Advanced Extension Award for Mathematics

TECHNICAL STRENGTHS

Strong	Java, C/C++, Standard ML
Confident	SQL, PHP, Node.js, \LaTeX , HTML and CSS
Familiar	Python, MATLAB

INDUSTRIAL EXPERIENCE

Google July 2017 - September 2017
Software Engineering Intern *Munich, Germany*

- Worked in the Consent team within Identity and Authentication developing metrics to help the team monitor the health of services.
- The project involved designing and implementing a pipeline—predominantly written in Java with some SQL—to gather and process data to be displayed in a monitoring console. Learnt a very wide range of different Google technologies in this process.

Google July 2016 - September 2016
STEP Engineering Intern *Zurich, Switzerland*

- Worked in a team of three interns in the Dremel SRE team developing an internal query diagnostic tool. I was mostly focused on the backend C++ development, with bits of frontend work in JavaScript and HTML/CSS.
- Personally worked on migrating the tool to use a new handler and query in the GoogleSQL dialect as opposed to the deprecated Dremel SQL dialect.

Action Starter Ltd July 2015 - September 2015
Web Development Intern *Birmingham, United Kingdom*

- Worked on a solo project developing a new website for a client in the NHS. This was a custom Wordpress site with new functionality built in with PHP.
- I worked on this remotely, needing little guidance from others, and gave a final demo and presentation to the client at the end of my internship.

EXTRA-CURRICULAR EXPERIENCE

St John's College May Ball

Head of Ticketing and Technology

October 2016 - Present
Cambridge, United Kingdom

- Single handedly responsible for all Ball ticket applications and allocations, and the entry of over 2,500 guests on the night for both the 2017 and 2018 May Balls.
- Devised and implemented (in Node.js) a new entry system with barcoded tickets which are scanned on entry, resulting in the fastest guest entry in recent Ball history (all guests were inside the Ball within 35 minutes of doors opening). Managed a team of around 15 workers on the night to ensure the smooth running of the entrance.
- Designed the Ball's static website in collaboration with the Head of Creative, and maintained the ticketing and admin Node.js websites (updating relevant details for the year, adding new functionality). Maintained the web servers and database.
- Was the point of contact for all guests for most of their questions, resulting in a very busy inbox and high workload which I dealt with throughout the academic year.

St John's College JCR

Computing officer; Acting Secretary

January 2016 - February 2017
Cambridge, United Kingdom

- Maintained the JCR's website, acted as a point of contact to all students for any technical problems they faced within college, liaised with college staff on the students' needs.
- Helped organise and run the college's Freshers' Week 2016, consisting of orientation activities for 180 new students.

ACADEMIC ACHIEVEMENTS

Group project: Best technical achievement

In the second year group projects, my group's work on *Learn to be an Alien*—an application written in Java to allow users to create 3D 'aliens' and train them to walk using a neural network—was voted by a panel of academics and tech company representatives to be the best technical achievement.

RELEVANT COURSES

Foundations of Computer Science (Standard ML)	Object Oriented Programming	Algorithms
Concurrent and Distributed Systems	Programming in C and C++	Further Java
Software and Interface Design	Software Engineering	Information Theory
Computer Graphics and Image Processing	Complexity Theory	Databases
Semantics of Programming Languages	Human-Computer Interaction	Security I and II