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## Employment

- September 2016–present **Hewlett Packard Enterprise, Software Engineer.**  
Part of the Cloud Bank team, designing and developing a transport layer to allow for efficient storage of deduplicated data across a number of cloud providers as part of the StoreOnce backup appliance. *Python/C*
- Summer 2015 **University of Bristol, Research intern.**  
*Mood and Decision-making Study*: created web-based study using jsPsych to measure respondents' reaction times to answering questions and categorising moving dots, in order to determine a link between mood, decision making ability, and drug usage. *Javascript*
- Summer 2014 **The Technology Studio, Intern.**  
Created proof of concept Glassware for Google Glass, both native (Android SDK and GDK) and using Xamarin (C#). Developed a proof of concept for an augmented reality mapping service. *C#/Java/OpenCV*
- Summer 2013 **Earthware, Intern.**  
Developed proof of concepts as part of client work for Transport for London. Created sample applications for various Google Maps tools such as custom Street View displays. *Javascript/PHP*
- Summer 2012 **Earthware, Intern.**  
Worked as part of a team on developing the road race maps for the London 2012 website. *Javascript/SQL*

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## Education

- 2012–2016 **University of Bristol - MEng Computer Science, First Class Hons.**  
Late-breaking work poster accepted to SIGCHI 2016  
Fintan Darragh prize for outstanding contribution to the life of the department - 2016  
IPL Prize for Best Third Year Group Project - 2015  
Netcraft prize for Top 10 2nd Year Students in Computer Science - 2014
- 2004–2011 **Haberdashers' Aske's Boys' School.**  
A2 level: A\* (Mathematics), A (Computing, Politics); AS level: A (Economics)  
GCSE: 5 A\*, 3 A, 2 B  
Barclaycard Cup for Information Technology - 2010

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## Other Projects

- 2016 **Magpie, Masters thesis project.**  
Developed a system to detect plagiarism in MIDI files efficiently and accurately, using a combination of locality sensitive hashing, a custom representation of MIDI data, and a custom distance metric based on harmonic similarity. The final system comprised both a CLI and a web interface to allow users to input either a MIDI file or draw in a melody directly on a piano roll, and was capable of ranking a dataset of 400,000 melody fragments in 10ms for similarity. *Python*
- 2014-2015 **Trenchmill, 3rd year group project.**  
An immersive 3D video game where the player moves through the trenches and no man's land of World War 1, using a manual treadmill to control their character, a Wiimote as a gun, and wearing a heart rate monitor to modify the game as it plays. Personally responsible for adaptive sound design, sockets and networking implementation, creating no man's land level, and general programming. *C++/Unreal Engine*
- 2013-2014 **BrainSlice, 2nd year group project.**  
An Android app designed to teach children about the brain. Using a 3D model, users can move their phone around someone's head to give the illusion of a window through the skull, into the brain itself. BrainSlice is available on the Google Play Store here: <https://goo.gl/cfPqtB> *Java/Android SDK*