

Education

University College London - MEng Computer Science, First Class Honours 2011 - 2015

- Masters research project - *Predicting Personality from Twitter*
- Information Retrieval and Data Mining Prize runner-up
- *Best Research Group Project of the Year - Task Identification using Search Engine Query Logs*
- Developed a platform-agnostic [home automation system](#) capable of remote surveillance and command and control
- Developed an Android app for the Restless Beings charity to conduct field studies on children in poorly-developed countries

Imperial College London - MBBS Medicine 2009 - 2011

- Withdrew during second year to transition to computer science

Concord College, Shrewsbury - GCE A levels (Pre-A*) - AAAAab 2008 - 2009

- Outstanding Student of the Year 2008 - Double award (Chemistry, Music)
- Most imaginative hovercraft design, solar buggy race consolation prize, annual public music (piano) performance participant.

Professional experience

R&D Scientist - Digital:MR May 2015 - August 2015

3-month feasibility study on sentiment analysis of images in social media, funded by a research grant from [the UK technology strategy board](#). Using the Yfcc100m and YLI datasets comprised of 100 million images, labels, and metadata, I investigated both existing and novel methods with the goal of developing a commercially-viable product.

Research Intern - Microsoft Research Cambridge June 2014 - August 2014

8-week research internship through the Bright Minds Intern Competition programme in the Machine Learning and Perception research group, working with Principal / Senior Researchers [Pushmeet Kohli](#), [Yoram Bachrach](#), [Ulrich Paquet](#), and [Filip Radlinski](#).

I worked on Project SmartFence - an application for web access control. Users block and allow the sites they know and SmartFence infers the suitability of the rest of the web. We developed several different models, and I delivered a prototype for the OneWeek company-wide hackathon. A patent was applied for.

Founding Developer - Unientry.Ltd June 2013 - 2014

3-month internship to develop a pilot site to help sixth form students to find the right university. The platform filters information from the Higher Education Statistics Agency and gives recommendations based on students' registered information and grades.

Site: <http://www.unientry.org>

JP Morgan Spring Week 2013 - European HQ - 25 Bank St. Canary Wharf April 2013

Implemented a performant implied volatility calculator for a stream of options prices, using the Black-Scholes model. Implementation was in Java, core algorithm is a simple Newton-Raphson iterator. Team awarded second best for code performance and code review, and best for presentation.

Extracurriculars

SynthJS - Music made quick December 2013

An experiment in music synthesis and representation using HTML5-based technologies and an exercise in UI design. The original intention was to let people sequence music quickly with little to no musical knowledge required.

Site: <http://lqkhoo.com/synthjs> | Source: <https://github.com/lqkhoo/SynthJS>

Study trip - Hokkaido Japanese Language School August 2014 - September 2014

Self-funded intensive study trip with home stay in Sapporo, Japan, to supplement my self study.

Competencies

C#	Java	Python	ASP.NET	MATLAB	HTML/CSS3	JavaScript	jQuery	D3.js	Knockout.js
MongoDB	SQL	MediaWiki	LaTeX	Sibelius					

Academic interests

Machine learning	Artificial intelligence	Game theory	Natural language processing
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Spoken languages and personal interests

English	Mandarin	Malay	Japanese (elementary)	Piano	Music composition	Reading
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