

Li Quan Khoo

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🏠 http://lqkhoo.com/wiki	🐙 https://github.com/lqkhoo
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Professional experience

Research Software Development Engineer - Ocean 5 Technologies Singapore 2017 - present

- Designed and implemented a distributed messaging framework to support pilot-from-shore capabilities for underwater vehicles.
- Developed a controller for a tractor-drill combine while collaborating with E&E and mechanical engineers, to make certain types of rocky terrain feasible for agriculture.

Embedded systems • distributed systems and messaging

R&D Scientist - Digital:MR 2015

Completed a feasibility study on sentiment analysis of images in social media, funded by a research grant from [the UK government's technology strategy board](#). Starting from the Yfcc100m and YLI datasets comprised of 100 million images, labels, and metadata, I investigated both novel and existing methods and developed a commercial product, which has since evolved to be based on convolutional neural nets.

Supervised learning • imaging

Research Intern - Microsoft Research Cambridge 2014

Completed a 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 or allow a few sites they know about, and SmartFence automatically infers the suitability of the rest of the web. We developed several different cluster/kernel-based models and visualization schemes. The final model generates a high dimensional embedding of websites from search sessions (think associated filtering). I delivered a prototype for the OneWeek company-wide hackathon, and a patent was applied for.

Unsupervised learning • information retrieval

Founding Developer - www.unientry.org 2013

Internship with UniEntry to develop a pilot site to help sixth form students find the right university. Developed a platform that filters information from the UK's Higher Education Statistics Agency and gives recommendations based on students' registered information and grades.

Web development • agile

JP Morgan Spring Week 2013 2013

Competition to implement a performant implied volatility calculator. Team awarded second-best for code review and performance, and best for presentation.

Education

Stanford University (Center for Professional Development) - *Graduate Certificate in AI* 2017 - present

- CS234 Reinforcement Learning (Winter 2019) GPA 4.0
- CS231n Convolutional Neural Networks for Visual Recognition (Spring 2017) GPA 3.7 - Project: [Bounding out-of-sample objects](#)

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

- Final year research project - [Predicting Personality from Twitter](#)
- Information Retrieval and Data Mining Prize (research and poster session)
- [Best Undergraduate Research Group Project of the Year - Task Identification Using Search Engine Query Logs](#)
- Developed an Android app for the Restless Beings charity to conduct field studies on children in poorly-developed countries

Imperial College London - School of Medicine - MBBS Medicine 2009 - 2011

- Withdrew in 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

Competencies

Python PyTorch MATLAB JavaScript C / C++ C# MediaWiki LaTeX Sibelius

Spoken languages and personal interests

English Mandarin Japanese Malay Piano