Li Quan Khoo

✉ changtau2005@gmail.com	☎ +44 (0)7517 900134
⌂ http://lqkhoo.com	⬤ https://github.com/lqkhoo
in http://www.linkedin.com/pub/li-quan-khoo/89/a27/8aa	

📄 Experience

Software Developer
Unientry.Ltd
<div align="right">June 2013 - present</div>

To deliver a pilot site for sixth form students and their teachers/mentors to find the right university for them. The platform publishes and filters information from the Higher Education Statistics Agency and gives recommendations based on students' perceived ability from their registered information and grades.

Scope: ~3 months + support | Team size: 3 | URL: http://www.unientry.org

Research Project: Task identification in search engine query logs
UCL
<div align="right">Jan 2014 - Apr 2014</div>

To find methods of semantic aggregation of user searches from search engine logs. This ties related searches to a hierarchy of information "classes". For instance, the search "map of Hawaii" would yield a record of "map of" mapping to the class <place>, and querying this class gives the most common tasks users associate with places, where specificity is governed via subclasses, for instance, <cities>, or <capitals>. The research is successful for 3 months' work, and was awarded best research work / presentation amongst our year.

Scope: 3 months | Team size: 1-4

Own Project: SynthJS - Music made quick (pre-alpha)
<div align="right">Dec 2013 - present</div>

To develop a JavaScript-based music sequencer usable by people with little to no musical knowledge, and then converting the music into a personalized rhythm game. Right now, the project is in its beginning stages, so only the sequencer is currently available.

Site: http://lqkhoo.com/synthjs | Dev diary: http://lqkhoo.com/wiki/index.php/Dev.SynthJS | Github: https://github.com/lqkhoo/SynthJS

Project: RoboHome
UCL
<div align="right">Sep 2012 - May 2013</div>

To develop a home automation platform capable of controlling devices locally, as well as remote surveillance. Platform is capable of controlling Arduino, Gadgeteer, and Wiimo (Belkin) devices, and has limited voice recognition functions. Remote component is hosted on Azure, local server is a Raspberry Pi running ArchLinux, which our Flask-based Python backend runs on.

Scope: ~9 months | Team size: 5 | Project site: http://comp2013group7.wikia.com/wiki/Comp2013group7_Wiki

JP Morgan Spring Week 2013
<div align="right">Apr 2013</div>

To implement a performant volatility calculator for a stream of options prices (to estimate the inverse of the Black-Scholes algorithm). 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.

Scope: ~8 hours | Team size: 4

JP Morgan Code for Good Challenge 2012
<div align="right">Nov 2012</div>

Code jam to develop a clip art application to raise awareness about nature in cities. Final application uses HTML5 canvas (Kinetic.js) with a PHP backend for uploads.

Scope: 48 hours | Team size: 4 | Source: https://github.com/horaceli/naturegram

Robot Race
UCL Computer Science
<div align="right">2012</div>

To program a maze-solving robot in C. Final algorithm is based on a wall-follower. Team placed 10th out of 30.

Scope: ~3 months | Team size: 2

Project: Android App
UCL Computer Science
<div align="right">2012</div>

To develop an Android app for the Restless Beings charity to conduct field studies on children in poorly-developed countries.

Scope: ~3 months | Team size: 2

Public wiki administration and community management   Feb 2010 - present

Wiki administrator / bureaucrat for kirby.wikia.com. My technical responsibilities include maintaining and implementing the custom theme, which I have overhauled from Wikia's default over several months, the templates in use, and the custom AJAX script + template wrapper used to pull soundtrack playlists off Youtube, to display them alongside documentation within a custom player.

Community management involves page patrols, user rights and site policy management, handling new anouncements from Nintendo, and liasing with Wikia regarding updates and MediaWiki plugins.

Scope: ~4years, ongoing | Team size: N/A | URL: http://kirby.wikia.com

Education

University College London   2011 - present
MEng Computer Science, First class (expected, 2015)

Current institution of study.

Imperial College London   2009 - 2011
MBBS Medicine

Withdrew during second year to transition to computer science. No credits transferable.

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

AAAAab (Biology, Chemistry, Physics, Mathematics, AS English literature, AS Music)

- Outstanding Chemistry Student of the Year 2008
- Outstanding Music Student of the Year 2008
- Hovercraft, solar buggy races participant

Skills and interests

Java Python C# ASP.NET HTML CSS3 JavaScript jQuery Backbone.js SQL MediaWiki

Interests

Design patterns Infosec Distributed systems Reliability Usability UI/UX Accessibility Military strategy

Japanese language Piano Erhu

Spoken languages

English Mandarin Malay

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