

Canhong Lin (Jason)

Blog: lichgo.github.io | Github: github.com/lichgo | Portfolio: lichgo.github.io/projects

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INTERN EXPERIENCE

Microsoft	Software Engineer 03/2014-09/2014, Asia R&D Headquarters, Beijing
<ul style="list-style-type: none">Microsoft Cloud Computing and Smart City Showcase Project: This project is to demonstrate Microsoft's global technology achievements on cloud computing and CityNext. The challenge lies in forming the best 3D visual effect and experience in integrating cross-machine multiple screens and a super large panorama screen. I was responsible for building diverse 3D animations, data visualization, and human-machine interactions on a demo framework, Microsoft CityNext Smart City Solution, and Azure Global Data Center and Service.Microsoft Global Hackathon 2014 Project - Chinese Calligraphy Input Source (Top 23 in the ARD list): The product enables calligraphy handwriting experience on input sources and saving/sharing generated calligraphy artwork for Asia users. It is in the top 23 among 120+ projects at Microsoft ARD and was invited for demo. My development work was based on XNA game framework and Windows Phone SDK, by tracing the trails of how a user touches a phone screen, calculating the distance, velocity, and direction between touch points, and using the brush texture of Chinese calligraphy to draw artwork.WebGL-based 3D Interactive Scenario Remote Simulator and Debugger: This project aims to enable remote simulating, debugging, and monitoring of the applications deployed on large screens in museums/exhibition centers. I built client/server/client architecture and applications that constantly capture real-time screenshots and renders images on 3D models.Recipe Recommender System based on WeChat and Big Data (ongoing): This product is for recommending recipes to WeChat users based on user profiles and preferences. I am working as a Product Manager to drive the development cycle of this product, including guiding it from conception to launch, user research and technology survey, UI design, and coordinating teamwork communication.	
Tencent	Software Engineer 07/2010-01/2011, headquarters, Shenzhen
<ul style="list-style-type: none">Tencent Agile R&D Project Management System: An integrated platform for R&D products/projects management, including iteration planning, feature and bug tracing, project progress control, and development/test workflow automation. I was engaged in full-stack development, including product design, back-end/front-end development, bug fix. My communication skills with different roles (designers, application developers, QA engineers, product managers, etc.) in a fast-paced and agile team is significantly improved.	
Vanke	Project Assistant 09/2011-10/2011, headquarters, Shenzhen
<ul style="list-style-type: none">Workflow Automation System for a NGO Charity Program: The program aims to save children who are born with severe heart attacks. I independently interviewed with medical doctors, volunteers, donors, etc to collect user requirements and converted them into software functions. I designed and prototyped a cross-role and cross-function workflow automation & management system to enable synchronizing information and workflow statuses.	

PROJECT EXPERIENCE

Synus	Browser-based cross-device touchable P2P video & whiteboard synchronizing website <ul style="list-style-type: none">Synus is a P2P platform purely based on web browsers, enabling users to conduct online video meeting and collaborative whiteboard sketching in real time. It is plugin-free, touchable, and cross-device.I was a full-stack developer, using WebRTC and WebSocket to tackle the problem of synchronizing server-side and client-side data of video stream and canvas (whiteboard).
Align	A crowd funding & joining platform for NPO/NGO charity programs <ul style="list-style-type: none">Align helps charity programs to create project profile, raise monetary donation, engage volunteers, and publish project progress.I used Backbone.js to create single-page web app, and leveraged Node.js+MongoDB to develop a RESTful server application.
SpotSlides	An online collaborative slides making tool <ul style="list-style-type: none">SpotSlides is a platform where members in small-sized teams can collaborate in making presentation slides.I built an http server from scratch and a page template engine by using Node.js, and encapsulated Web UI components based on raw JS.
jcompressor	Open Source Project: Web performance tool - JavaScript files compressor <ul style="list-style-type: none">Jcompressor is a Closure Compiler-based compressor (node package) that recursively compresses all .js files in a website directory. It facilitates the work of compressing all JavaScript files and helps accelerating webpage rendering.I used Node.js to create jcompressor. It is published on NPM open-source community and has thousands of downloads.

EXPERTISE

C++, Java, Node.js, SQL, Linux	C++ STL; JavaEE; GUI; MySQL, MongoDB
JavaScript, Web Front-end	Object-oriented JavaScript, jQuery, Backbone.js, HTML5 (Canvas, WebSocket), CSS3, Flex
Mathematical modeling and approximate algorithms-based optimization	Operations Research, meta-heuristics (GA, LNS, VNS)

HONORS & AWARDS

Significance Contribution to MCCO at Microsoft, 07/2014	Issued by the COO of Microsoft for my dedication and enthusiasm at Microsoft
Top 23 in Microsoft 2014 ARD Hackathon, 07/2014	Top 23 out of 120+ projects and was invited for demo and voting
M.Phil. Full Studentship (331,200 HKD), 2011-2013	Awarded by University/HK Government to support my research degree
University Outstanding Graduate, 06/2011	Awarded by the university for my high academic performance

EDUCATION

Master of Philosophy in Systems Engineering, The Hong Kong Polytechnic University, Hong Kong (2011-2014, full studentship. GPA: 3.7/4).

PUBLICATIONS

- Lin, C., Choy, K.L., Ho, G.T.S., Chung, S.H., & Lam, H.Y. (2014). Survey of Green Vehicle Routing Problem: Past and future trends. *Expert Systems with Applications*, 41(4), 1118-1138.
- Lin, C., Choy, K.L., Ho, G.T.S., & Ng, T.W. (2014). A Genetic Algorithm-based optimization model for supporting green transportation operations. *Expert Systems with Applications*, 41(7), 3284-3296.
- Lin, C., Choy, K.L., Ho, G.T.S., Lam, H.Y., Pang, G.K.H., & Chin, K.S. (2014). A decision support system for optimizing dynamic courier routing operations. *Expert Systems with Applications*, 41(15), 6917-6933.

MISCELLANEOUS

Language proficiency: English (fluent), Mandarin (native), Cantonese (native); Hobbies: Hiking, cycling, table tennis, startups, design (My portfolio: [Web Design](#)).