

# Chong Yun Long

## contact

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## www

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## languages

english – fluent  
chinese[mandarin] – fluent  
japanese – conversant

## programming

♥ L<sup>A</sup>T<sub>E</sub>X

JavaScript, CSS, HTML  
Objective-C, C++, C  
Java, C#  
PHP, SQL  
PROMELA  
LabVIEW, Qlikview

## frameworks

Android, iOS  
jQuery, Bootstrap  
MPI, .NET, Charm-Crypto

## hobbies

japanese culture/anime  
photography =  
{cosplay, portrait, animals}

## education

### National University of Singapore

Aug 2010 – June 2014

*1st Class Honours in Bachelor of Computing, Computer Science*

- Dissertation (Applied Cryptography) – Efficient Key Aggregation for Cloud Storage
- Specialization in Information Security, focus area in Parallel Computing
- Awarded Dean's List for 3 semesters

## projects

- *WEP Cracker* – cryptanalysis attack on RC4 cipher used in WEP
- *QEP (C#)* – events planner featuring a customized budget optimizing algorithm
- *TeachMe!* (CodeIgniter, JQuery) – social networking site which aims to bring together people with common interests
- *SPA (C++)* – static source code analyzer and parser

## experience

### DSO National Laboratories

July 2014 – Now

*Member of Technical Staff, Computer Security Lab*

- Analyzed protection mechanisms of Microsoft Windows kernel
- Researched novel reverse engineering techniques using emulators and virtualization technologies
- If I told you more I would have to kill you ...

### TADA Pte Ltd

May 2013 – Aug 2013

*Mobile Development Intern*

- Independently picked up iOS and Android development concepts within a period of 3 months
- Developed *Shoppink* (Android, 2 months) – mobile e-commerce platform for blogshops. Shoppink uses a specialized algorithm to tracks products from over 200 blogshops
- Developed *ToMyself* (iOS, 1 month) – mailer app designed for users who frequently send emails to themselves. *ToMyself* is available on App Store
- Gained insights into entrepreneurship

### RGE Pte Ltd

May 2011 – July 2011

*Summer Intern*

- Collaborated extensively with overseas team members for the development and testing of corporate dashboard, which presents raw data in a visually meaningful way, assisting the top management in their decision making process
- Assisted in the deployment of IT infrastructure for more than 100 staff in a newly renovated office
- Provided IT support for more than 300 end users, expediting the resolution of any technical problems faced so as to minimize disruption to their business
- Supported server and blackberry administration

**NCS Pte Ltd**

Nov 2009 – May 2010

*Temporary Staff*

- Collaborated with a team of consultants of different nationalities for a multi-million dollar government project
- Assisted analysts in the design and coding of the mockups, giving clients a visual experience, allowing them to give better feedback on the system which improves the whole requirements gathering process
- Developed a prototype as an illustrative reference for offshore development teams who may have difficulties understanding the specifications due to language barriers
- Received commendation letter from Project Manager

**National Service. MINDEF Medical Centre (MMC)**

Jan 2008 – Nov 2009

*Combat Medic, Registration/Appointment IC*

- Managed and supervised the registration and administration section of MMC
- Revamped registration and administration workflow, which help improved customer experience and alleviating unnecessary waiting
- Spearheaded the design of a standardized emergency drug manual and was awarded silver in WITs competition
- Received commendation from various officers throughout my stint in MMC

**A\*STAR (SIMTech)**

Nov 2006 – Dec 2006

*Research Intern*

- Worked in a team of research scientists for an A\*STAR-Rolls Royce collaboration project.
- Calibrated and programmed an industrial gantry robot used for fuel cell assembly
- Contributed ideas to the design of the gantry robot

**co-curricular****Kizuna Project**

Jul 2012

*Cultural exchange program to Japan*

- Gained awareness of Japan's post-earthquake revival efforts as well as the economic and social impact the earthquake had on Fukushima
- Created a photobook and a report to share my experiences on the trip and to educate the public about the post-earthquake situation in Fukushima