

# Chong Guo

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## TECHNICAL SKILLS

### ■ Languages

C, C++, Objective-C, Node.js, Python, C#, PHP, Java, JavaScript, HTML5, Verilog

### ■ Editors

Vim, Emacs, Atom, Sublime Text

### ■ Operating Systems

Mac OSX, Linux (Ubuntu, CentOS, Debian), Windows, iOS

### ■ Databases

PostgreSQL, MySQL, SQL Server, MongoDB, Redis

### ■ Miscellaneous

Git, Unity3D, OpenCV, Qt, PostgreSQL Server Programming, MatLab, Minecraft modding,  $\LaTeX$

## TECHNICAL WORK EXPERIENCE

**iOS Developer, ZaoFeng E-commerce Ltd, Zhejiang, China**

Apr 2015 - Present

- Designed, implemented and maintaining an iOS App “云格子铺” which is used for second-hand trades among thousands of students in Zhejiang Province
- Cooperated with another developer using Git (in company's Gitlab) to provide a good collaborative environment
- Reduced total data costs through bandwidth, memory and performance optimisation
- Received 4+ stars rating on Apple Appstore in China

**Back-End Developer, ShiChuo Technologies Ltd, Zhejiang, China**

Jul - Sept 2014

[Demo: <http://www.armourcy.com/8btcx>]

- Constructed a information sharing website '8btcx' which has been used among several companies
- Assisted in designing and development of website according to design specifications
- Developed back-end using Linux, Apache, MySQL, and PHP(with Codeigniter framework) and maintained it in a 24/7 environment
- Normalized database tables and performed extensive query optimization to boost website performance

## SELECTED PERSONAL PROJECTS

**PostgreSQL Database Extension**

May - Sept 2015

[Code: <https://github.com/Armour/Incomplete-Data-Query-in-PostgreSQL>]

- Implemented k-skyband, constrained skyline and group-by skyline queries using pl/pgSQL and C to make skyline query on incomplete data more efficient
- Learned PostgreSQL server side programming and successfully integrated three queries into PostgreSQL system
- Performed quality testing and assurance for those three queries to meet users needs

## SELECTED PERSONAL PROJECTS CONTINUED

### Object Detection Project

Feb - Mar 2015

- Implemented object detection using C++ and OpenCV to provide competitive object detection rates in real-time
- Self-learned Machine Learning Course by Andrew Ng on Coursera
- Summarized and programmed many algorithms like Liner Regression, Neural Network and SVM

### Military Training Webpage

Jul - Sept 2014

[Demo: <http://www.armourcy.com/military-training/>]

- Implemented the Military Training Webpage which is used by every freshman in ZJU using PHP
- Maintained 24/7 high volume availability demands until our school's military education and training end
- Implemented an admin panel to provide efficient information management

[Admin panel: <http://www.armourcy.com/military-training/admin> (Username:test Password:test)]

## SELECTED ACADEMIC PROJECTS

### Lyrebird, Operating System, Simon Fraser University

Sept - Dec 2015

[Code: <https://github.com/Armour/CMPT300-Assignment>]

- Implemented a program which uses a distributed system with client-server architecture to decrypt large numbers of encrypted tweets
- Improved performance by spreading the decryption tasks across multiple processes in client side
- Integrated a memory leak detection tool "MEMWATCH" to make sure there is no unfreed memory, overflow or underflow to memory buffers

### Magic Tower Game, Object-Oriented Programming, Zhejiang University

Nov 2014 - Jan 2015

[Code: <https://github.com/Armour/Magic-Tower-Qt>]

- Implemented an RPG game using Qt and C++ which is about a warrior saving the princess who has been trapped in the top of the tower
- Connected with remote database (MYSQL) using data orientated structure which allows fast computation
- Gave different ends according to player's choice, added NPC, event and even cheating function to maximize players' gaming experiences

## EDUCATION

### Simon Fraser University, Vancouver, Canada

Sept 2015 - Present

Bachelor's Degree - Computer Science

### Zhejiang University, Hangzhou, China

Sept 2013 - Jul 2015

Bachelor's Degree - Computer Science (GPA: 4.15/5.00)

## AWARDS

- Placed 8<sup>th</sup> in the ACM-ICPC Pacific North West Contest (Division 1) 2015
- Simon Fraser University Entrance Award (\$5,000) 2015

## INTERESTS

- Freestyle inline skating
- Music/Bass
- Tennis
- Traveling