

# Guan Jing

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<http://jennica.space>

## EDUCATION

2015.09 - 2018.07	University of Chinese Academy of Sciences
<b>Computer Architecture</b>	Master
2011.09 - 2015.07	Southwest Jiaotong University
<b>Information Security</b>	Bachelor

## EXPERIENCE

2016.06 - 2016.10	Ah Oh Technology (Beijing) Co., Ltd.
<b>PHP Back-end Engineer</b>	
■ Developed achievements card series, points system and online market.	
2012.07 - 2013.08	ACM Training Team of SWJTU
<b>Team Leader</b>	
■ Responsible for ACM training team's training and contests.	

## PROJECTS

2016.09	The Case Study and Implementation of Design Patterns
■ With the help of UML, all the 23 types of design patterns were achieved and compared using C++ and Python. ( <a href="https://github.com/yogykwan/design-patterns-cpp">https://github.com/yogykwan/design-patterns-cpp</a> , <a href="https://github.com/yogykwan/design-patterns-py">https://github.com/yogykwan/design-patterns-py</a> )	
2016.06	Design and Implementation of Detection Algorithm for Cache Pollution Attack Based on NFD
■ With multiple real machines, a detection algorithm with Bootstrap, Monte Carlo, Chebyshev, Hash and Bitmap was implemented. ( <a href="https://github.com/yogykwan/NFD">https://github.com/yogykwan/NFD</a> , <a href="https://github.com/yogykwan/ndn-traffic-generator">https://github.com/yogykwan/ndn-traffic-generator</a> )	
2015.10	Multi-user Chat Tool Based on Socket Programming
■ With Python and Qt, a multi-user chat visualization software was developed. Features included nickname, friends, video, unicast/multicast modes. ( <a href="http://www.jianshu.com/p/21a045fab6b7">http://www.jianshu.com/p/21a045fab6b7</a> )	
2015.03	Design and Implementation of Wireless Full-duplex MAC Queue Scheduling Based on NS-3
■ In the NS-3 platform, a wireless full-duplex queue scheduling algorithm with MAC layer was designed and implemented, which improved the throughput and fairness. ( <a href="http://jennica.space/2015/02/04/fdwifi-mac/">http://jennica.space/2015/02/04/fdwifi-mac/</a> )	
2014.06	Authentication and Detection Based on Fragile Watermarking Algorithm
■ Fragile watermark certification testing software was developed in Python. It could carry out image legitimacy detection, and repair the defective image. ( <a href="https://github.com/yogykwan/wmbmp-edb">https://github.com/yogykwan/wmbmp-edb</a> )	
2014.05	Personal Website Mainly Composed of Blogs and Web Applications
■ Based on Jekyll, a personal website was developed with Html, Markdown, Javascript Web applications like challenge games. ( <a href="http://jennica.space">http://jennica.space</a> )	
2014.05	Steganography Software Based on F3, F4, F5 Algorithms
■ Developed in Python, secret information could be hidden into the pictures, and only legitimate personnel could decode and read. ( <a href="https://github.com/yogykwan/f5jpg-edb">https://github.com/yogykwan/f5jpg-edb</a> )	
2014.03	Text Encryption and Decryption Software Based on DES Algorithm
■ A text encryption and decryption visualization software was written in C++ and MFC. Users could encrypt string or file via graphical interface. ( <a href="https://github.com/yogykwan/destxt-edb">https://github.com/yogykwan/destxt-edb</a> )	

## HONORS

2013.12	ACM International Student Program Competition Tonghua Division Silver
2013.10	National Scholarship of 2012-2013
2013.09	ACM International Student Program Competition Chengdu Division Silver
2013.06	"Lan Qiao" National Software Design Competition First Prize
2012.10	National Scholarship of 2011-2012
2012.05	National College English Contest First Prize

## CERTIFICATES

Cisco	CCNA Security &CCNP
Toefl	103