

# Jing Guan

Software Engineer



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<http://jennica.space/>

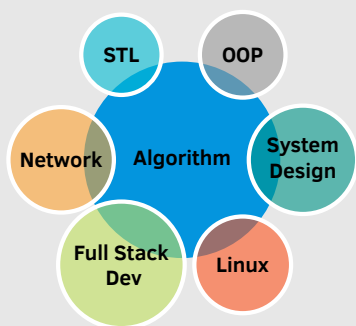


<https://github.com/yogykwan>



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## Skills



## Interests

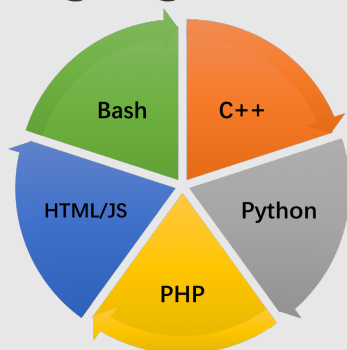
Software Engineering

System Architecture

Fullstack Development

Data Science

## Languages



## Experience

Jun 2016 -  
Sept 2016

**PHP Back-end Developer**

Ah Oh Technology (Beijing) Co., Ltd.

- Developed card, point, prop, shop systems using PHP and MySQL
- Upgraded system architecture using Nginx and Memcache
- The number of users increased from 1,000 to 10,000

Mar 2015 -  
Present

**Graduate Research Assistant** The Institute of Computing Technology of CAS

- Implemented a wireless full-duplex queue scheduling algorithm of MAC on NS-3 platform, which improved throughput and fairness
- Implemented a detection algorithm for DDoS using Bootstrap, Monte Carlo, Chebyshev, Hash and Bitmap on NFD platform with several real machines

## Projects

Jan 2017 -  
Present

**Hot STL**

Object Oriented Programming

- Built containers like string, vector, list, deque, set, map
- Implemented algorithms like find, replace, remove, sort, unique
- Added new components like bloomfilter, bitmap, ACM algorithms

Jun 2014 -  
Present

**Personal Website**

Full Stack Web Development

- Built a personal blog site using HTML, CSS and JS based on Jekyll
- Developed one-page web applications like challenge game
- Designed a back-end management system, and offered APIs for front-end to signup and signin via REST packets

Sept 2013 -  
Jul 2014

**Encrypt and Decrypt Bit**

Information Security

- Developed a text encryption and decryption software based on DES in C++ and MFC, which encrypted file through graphical interfaces
- Developed a steganography software based on F3, F4, F5 Algorithms in Python, which hid secret into the pictures
- Developed an image authentication software based on fragile watermarking in Python, which authenticated and repaired images

## Honors

2012 - 2014 **ACM International Student Program Competition** 2 Silver, 2 Bronze

2012 - 2013 **National Software Design Competition** 2 First Prize

2012 - 2013 **National Scholarship** 2 Consecutive Years

2012 - 2013 **National College English Contest** 1 First Prize, 1 Third Prize

## Education

2015 - 2018 **Master, Computer Architecture** University of Chinese Academy of Sciences  
Current GPA: 3.33/4

2011 - 2015 **Bachelor, Information Security** Southwest Jiaotong University  
GPA: 3.46/4.0, Top 3%