Jing Guan

Software Engineer

📞 +86 185 1064 9016
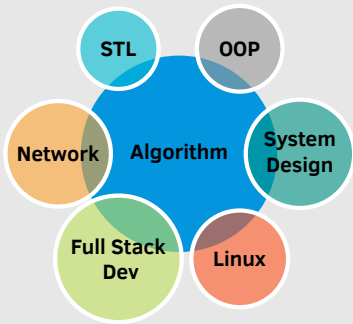
🌐 http://jennica.space/

🔗 https://github.com/yogykwan

✉️ guanjing@ict.ac.cn

Skills

STL · OOP · System Design · Linux · Full Stack Dev · Network · Algorithm

Interests

Software Engineering

System Architecture

Full Stack Development

Data Science

Languages

Bash · C++ · Python · PHP · HTML/JS
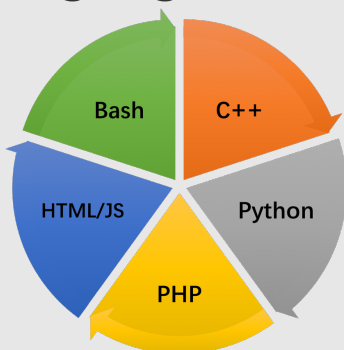
Experience

Jun 2016 - Sept 2016

PHP Backend 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 (Class A Journal)

Projects

Jan 2017 - Present

Hot STL   Supplementary C++ STL

- 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

Jennica Space   Full Stack Personal Website

- Built a personal blog site using HTML, CSS and JS based on Jekyll
- Developed single page web apps like challenge game, ascii images
- Designed a backend multi user system and offered APIs for blog sites to manage states of their posts and readers

Sept 2013 - Jul 2014

Encrypt and Decrypt Bit   Information Security Suite

- 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%