Jing Guan

Full Stack Engineer

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🌐 http://jennica.space/

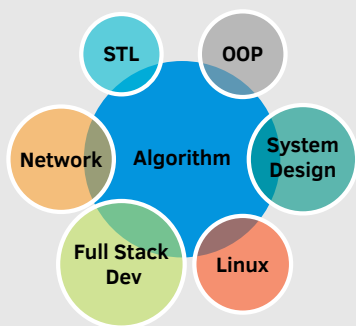 https://github.com/yogykwan

✉ guanjing@ict.ac.cn
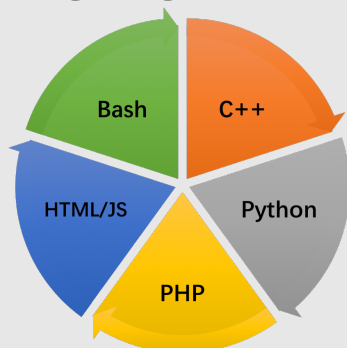
Skills

Interests

Full Stack Development

System Architecture

Software Engineering

Big Data

Languages

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
- Increased number of users 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 avridged version of containers like 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 Silvers, 2 Bronzes

2012 - 2013 **National Software Design Competition** — 2 First Prizes

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

2012 - 2013 **National College English Contest** — 1 First Prize, 2 Third Prizes

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, Top 3%