Jing Guan

Software Engineer

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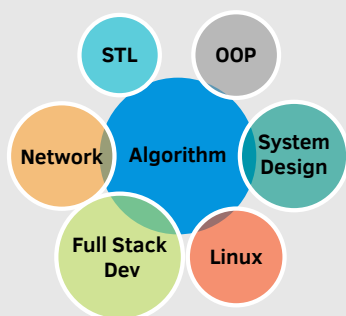
🌐 http://jennica.space/

⬛ github.com/yogykwan

✉️ guanjing@ict.ac.cn

Skills ———

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

Interests ———

Software Engineering

System Architecture

Full Stack Development

Big Data

Languages ——

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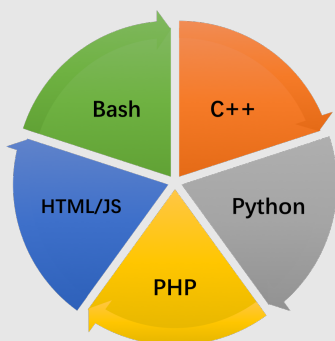
Experience

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

Projects

Jun 2016 - Present	**Geek News**	Full Stack Hybrid App

- Developed like and comment plugin APIs using Python and MongoDB for others blog websites
- Developed user authentication and authorization sytem using OAuth2
- Developed hybrid blog push app using Ionic, Angular and Express, users could like, comment and add blogs to favorite

Mar 2015 - Jan 2016	**Hot STL**	Supplementary C++ STL

- Built abridged 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

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** Current GPA: 3.33/4	University of Chinese Academy of Sciences
2011 - 2015	**Bachelor, Information Security** GPA: 3.46/4.0, Top 3%	Southwest Jiaotong University