Jing Guan

Software Engineer

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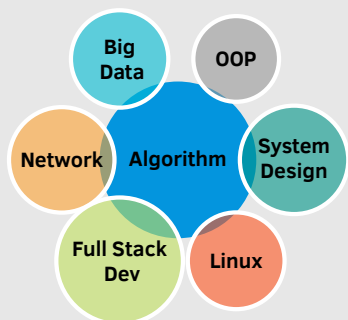
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Skills ─────────

Big Data · OOP · Network · Algorithm · System Design · Full Stack Dev · Linux

Interests ──────

Software Engineering

Full Stack Development

Web System Architecture

Data Science

Languages ──────

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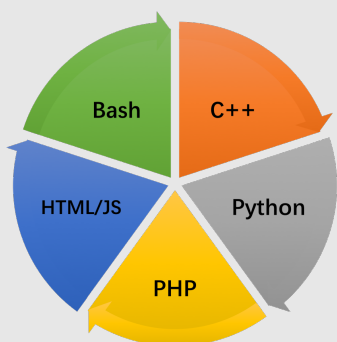
Experience

July 2017 - Sept 2016	**Sofeware Engineer Intern**	Google Inc.

- Figured out distribution pattern of book's metadata using Flume C++
- Designed algorithm to discover relationship between books and mapped relationship

Jun 2016 - Oct 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 software based on DES in C++ and MFC
- Developed a steganography software based on F5 in Python
- 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
2011 - 2015	**Bachelor, Information Security**	Southwest Jiaotong University