

Hong Miao

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Keyword: [linux](#) [Kernel](#) [Linux Server](#) [Linux storage](#)
[Security](#) [Nginx](#) [WAF](#) [Network Programming](#)

Personal Details

Gender: male

Date of Birth: October 25, 1987

Native place : China, in Anhui Province

Apartment: Shanghai

Objective

- Linux Server Development
- Linux Storage, Kernel

Education

Harbin Institute of Technology

Automation Engineer Technology/Technician

Master's degree

2008/9 – 2010/12

- First-class scholarship(twice)
- The first prize at provincial level in Northeast District Mathematical modeling competition(2009)
- Merit Student of HIT(2009, 2010)

Harbin Institute of Technology

Automation Engineer Technology/Technician

Bachelor's degree

2004/9 – 2008/7

- People's Scholarship(Seven times)
- postgraduate recommendation(2008)

Skills

- C/C++ (3 years+ in linux Kernel, Driver and System Programming), Python(1 year+), Java(About half a year), Golang; Familiar with the source code security technology
- Familiar with the commonly used data structures and algorithms, Familiar with STL, understand Boost
- Familiar with TCP/IP, HTTP; Familiar with Unix/Linux Network Programming; Familiar with scsi protocol, Familiar with linux Kernel storage principle
- Familiar with Mysql; understand MongoDB, Redis
- Familiar with high-performance server development; Familiar with Nginx(reading the source code)
- understand Web Security, Cloud Computing, Cloud Storage, agile development
- Have strong interests in new technology, Strong ability of communication in technology

Experience

Huawei Technologies

software engineer

Storage research and Cloud security

2012/1 - Now

Emerson Network Power

Linux System Development Engineer

Monitoring software development department

2011/1 - 2012/1 [1 year 1 month]

Nokia Research Center(China)(Intern)

System Development Engineer(Intern)

Wearable computing team(Intern)

2009/12 - 2010/5 [0.5 year]

Project Experience

WAF(Web Application Firewall) development based on Nginx

2013/2 - Now

linux/c/Nginx

Cloud security engine development

2012/5 - 2013/2

linux/c++/Python/Mysql/MongoDB

- web2.0 crawling engine
 - Using embedded browser and algorithm based on state diagram transformation model, Invalid state filtering using SVM classifier(**Apply for a patent for invention**)
 - Core algorithm based on Crawljax(open source) : <http://crawljax.com/>
- Host security baseline engine development
- Develop a web security scanner in spare time(<https://github.com/oikomi/UnitScan>)

IO performance optimization in linux Kernel storage

2012/1 - 2012/5

linux Kernel

- Researching the linux kernel IO system; find IO performance optimization points

Centralized monitoring software development

2011/1 - 2012/1

linux Kernel/c++ Server development

- Network library development(linux/C++)
- Server information collection application development(linux/C)
- Switch drive development (Linux Drivers)

Wear mobile phone(Intern)

2009/12 - 2010/5(Intern)

linux Kernel(Driver)

- Driver software development

Languages

English: CET-6

proficient in listening and reading

Training

RDPM(like PMP): Learning research and development project management

2013.2-2013.3

Agile: Agile development training

2012.3-2012.4