

# 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

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### **Huawei Technologies**

*software engineer*

### **Huawei Noah'S Ark Lab**

2012/1 - 2013/7 [ 1 year 6 month ]

### **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

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### **WAF(Web Application Firewall) development based on Nginx**

2013/2 - 2013/7

*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

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**English:** CET-6

*proficient in listening and reading*

## Training

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

2013.2-2013.3

**Agile:** Agile development training

2012.3-2012.4