

# HANG HU

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## EDUCATION

### Virginia Tech

Ph.D. Student in Computer Science, Advisor: Gang Wang

2016.09-present

### Huazhong University of Science and Technology

B.E. in Electronic Packaging Technology

2012.09-2016.06

## WORK EXPERIENCE

### Data Analytics Intern at Geetest, Wuhan, China

Geetest is using the mouse movement data to do man-machine verification

2015.10-2016.02

- Implemented algorithms including gradient descent decision tree ensemble
- Deployed machine learning algorithms using spark

## ACADEMIC PROJECTS

### Deception and Misunderstanding: Analyzing Email Spoofing from User Perspectives

Submitted to the Network and Distributed System Security Symposium (NDSS) 2018

2016.11-2017.05

- Analyzed how email service handle forged emails
- Measured the SPF and DMARC records of the top 1 million domains
- Did role-play and deceptive user studies to analyze how effective existing warning mechanisms are

### Disposable Email Service and SMS Service

How people are using disposable email service and sms service

2017.06-present

- Wrote scripts to collect messages from disposable service websites

## PROGRAMMING PROJECTS

### Tinder Dating Robot in Python

It can finish all the basic functions of tinder including like or super like people and send and receive messages

2017.06-2017.07

- Used http proxy to monitor tinder activity to get its http api call
- Wrote multithreading script to auto like people, receive messages and get updates

### Email Service Server and DNS Server Set Up

It can answer DNS queries and host virtual domains to send and receive emails

2017.05-2017.06

- Set up BIND to host domain DNS records
- Set up postfix as SMTP server and dovecot as POP3 and IMAP server

### Extensible Shell in C

Simple extensible shell program

2016.09-2016.10

- Support tasks management (jobs, fg, bg, kill, stop, ctrl+z, ctrl+c)
- Support file io, io redirection and pipeline
- Support plugins and terminal exclusive app like vim

### Thread Pool in C

It runs fixed number of threads to finish large number of task submission

2016.09-2016.10

- Support task submission and result returning
- Fixed number of threads working together to support large number of tasks

### Memory Allocator in C

It's a dynamic memory allocator

2016.10-2016.11

- Support memory allocate, free and reallocate

### HTTP Server in C

It listens on port 80 and answer http requests

2016.11-2016.12

- Support http get requests for static file and cgi program
- Run in multithreading