

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 Conference on Computer and Communications Security (CCS) 2017

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 spider 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