Hang Hu

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Summary

Objective: Summer Internship
Language: Python (proficient), C++/C (prior experience), Java (prior experience)
Skill: Scikit-learn (Data Analytics), Latex, Flask (Python Back-end), HTML/CSS

Education

Virginia Tech, Ph.D. Student in Computer Science, Advisor: Gang Wang *2016.09-present*
Huazhong Univerisity of Science and Technology, B.E. in Electronic Packaging Technology *2012.09-2016.06*

Work Experience

Data Analytics Intern at **Geetest**, Wuhan, China *2015.10-2015.12*
Geetest is using the mouse movement data to do man-machine verification

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

Graduate Research Assistant at **Virginia Tech**, Blacksburg, US *2017.02-present*
Deception and Misunderstanding: Analyzing Email Spoofing from User Perspectives

- Submitted to the Network and Distributed System Security Symposium 2018
- 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

Programming Projects

Tinder Dating Robot in Python *2017.06-2017.07*
It can finish all the basic functions of tinder including like or super like people and send and receive messages

- 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 *2017.05-2017.06*
It can answer DNS queries and host virtual domains to send and receive emails

- Set up BIND, postfix and dovecot

Extensible Shell in C *2016.09-2016.10*
Simple extensible shell program

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

Thread Pool in C *2016.09-2016.10*
It runs fixed number of threads to finish large number of task submission

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

Memory Allocator in C *2016.10-2016.11*
It's a dynamic memory allocator

- Support memory allocate, free and reallocate

Multithreaded HTTP Server in C *2016.11-2016.12*
It listens on port 80 and answer HTTP requests

- Support HTTP get requests for static file and CGI program