Hang Hu

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EDUCATION

Virginia Tech   *2016.09-present*
  Ph.D. Student in Computer Science, Advisor: Gang Wang

Huazhong University of Science and Technology   *2012.09-2016.06*
  B.E. in Electronic Packagincg Technology

WORK EXPERIENCE

Data Analytics Intern at **Geetest**, Wuhan, China   *2015.10-2016.02*
  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

ACADEMIC PROJECTS

Deception and Misunderstanding: Analyzing Email Spoofing from User Perspectives   *2016.11-2017.05*
  Submitted to Conference on Computer and Communications Security (CCS) 2017
  - 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   *2017.06-present*
  How people are using disposable email service and sms service
  - Wrote spider to collect messages from disposable service websites

PROGRAMMING PROJECTS

Tinder Dating Robot in Python   *2017.06-2017.07*
  It can finish all the basical functions of tinder including like or superlike people and
  send and receive messages
  - Used http proxy to monitor tinder activity to get its http api call
  - Wrote multithread 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 to host domain DNS records
  - Set up postfix as SMTP server and dovecot as POP3 and IMAP server

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 io, io 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

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
  - Run in multithreads