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), Gensim (Topic Modeling), Flask (Python Backend), HTML/CSS, LaTeX, BIND, Postfix, Dovecot, Linux, Matlab

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*

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 ML 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
  - First author, submitted to the NDSS 2018
  - Scanned and analyzed the top 1 million domains' SPF and DMARC records
  - Did role-play and deceptive user studies to test warning mechanisms
  Email Service Server and DNS Server Set Up
  - It can answer DNS queries and host virtual domains to send and receive emails
  - Set up BIND for DNS, postfix for SMTP and dovecot for POP3 and IMAP

PROJECT

Tinder Dating Robot in Python   *2017.06-2017.07*
  It can finish all the basic functions of Tinder including like and messages
  - Used HTTP proxy to monitor tinder activity to get its RESTful APIs
  - Wrote multithreading script to auto like people, receive messages and get updates

Twitter User Gender Classifier   *2017.02-2017.06*
  Used screen name, profile image, self-description, tweets to classify user gender
  - Cleaned data and queried profile image of users by using Twitter RESTful API
  - Built random forest, naive bayes, logistic regression, logit boosting in Weka

Extensible Shell & Memory Allocator in C   *2016.09-2016.10*
  Simple extensible shell program and memory allocator library
  - The shell supported tasks management (jobs, fg, bg, kill, stop, ctrl+z, ctrl+c)
  - The shell supported file I/O, I/O redirection and pipeline
  - The shell supported plugins and terminal exclusive app like vim
  - Memory allocator supported memory allocate, free and reallocate

Thread Pool & Multithreaded HTTP Server in C   *2016.09-2016.10*
  Implemented a simple HTTP server running on a self-implemented thread pool
  - The server supported HTTP get requests for static file and CGI program
  - The thread pool supported task submission and result returning

AWARD

Meritorious Winner in the Interdisciplinary Contest in Modeling, COMAP   *2015*
National Scholarship, Merit Student, HUST   *2014*
Scholarship of Academic Excellence, Self-Improvement, Excellent Student Cadre, HUST   *2013*
Scholarship for the Excellent Freshman, HUST   2012