

HANG HU

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github.com/oxorz

SUMMARY

Objective: Summer internship job, interest: data analytics, website backend, email service

Language: Python (proficient), C++/C (prior experience), Java (prior experience)

Skill: Scikit-learn (Data Analytics), Gensim (Topic Modeling), Spark, Flask (Python Backend), HTML/CSS, \LaTeX , EC2, Linux, Git, BIND, Postfix, Dovecot, Matlab

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

EXPERIENCE

Data Analytics Intern at Geetest , Wuhan, China	2015.10-2015.12
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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
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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 UI 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
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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
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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
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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
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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