

Zhou Zhizhong

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EDUCATION

National University of Singapore, Master of Computing (CS)

Jan 2017 - Jul 2018

- CAP: 3.65/5 (Second Honor)
- Relevant Modules: Big-data Analytics, Web Security, Information Visualization, Advanced Network

Nanjing University, Bachelor of Management (IS)

Sep 2010 - Jun 2014

- GPA: 4.24/5 (Ranking: 26/112)
- Excellent graduate, People's Scholarship, Excellent student in social practice
- Publication: Analysis of Half-life Journals in Library and Information at Home and Abroad, 2013

WORK EXPERIENCE

Merkle, Campaign Analyst II

Apr 2014 - Dec 2015

- Designed, developed and executed marketing campaigns, constructed complex data queries with SQL in Netezza Workbench to support business models.
- Developed stored procedures for automated deployment, wrote VBS scripts for auto scheduling.
- Addressed ad-hoc data-preprocessing request, support business team with data issues troubleshooting.

RESEARCH EXPERIENCE

Distributed Big-data Platform (Java)

Apr 2013 - Jun 2014

- Configured a distributed platform including hadoop, hbase and zookeeper, stored data to HDFS through flume and kafka, compiled hadoop-eclipse-plugin and undertook multiple benchmark tests.
- Implemented PageRank, Weighted PageRank, TF-IDF algorithms for MapReduce jobs in this platform.



PROJECT

Program analysis on LLVM Pass (C++)

- Implemented different LLVM Pass for program analyses and evaluation, including Taint, Difference and Interval analysis, analyzed LLVM instructions and extended programs with support of loops and path-sensitivity check.

Conference Information Visualization (Python, Tableau, D3.js)

- Extracted labels from conference papers in xml format, visualized queries with insightful and creative plotting (Sankey, Sunplot, Forced Graph chart) in Tableau with imbedded dynamic D3.js plotting.

Web Diary application (Python, Flask, Docker)

- Developed a web diary application with RESTful API with team which supports function like user registration, login, personal webpage, diary post edit, publish or hide and delete.
- Designed database schema, implemented endpoint call and response in flask framework, handled application communication with Ajax call.

Web Scraper (Python)

Jun 2018 – Cur.

- Crawled posts in weibo.com, simulated user login to get cookies, parsed html/xml content with regex or BeautifulSoup4 library and stored them in mysql, used multiprocessing to improve efficiency.
- Implemented multiple methods against anti-crawling, including fake user-agents, proxy ip address, csrf check and random sleep, analyzed returned request content to bypass javascript restriction.
- Combined website pages into one pdf file with css rendered.

Spam detection on Yelp Data (Jupyter Notebook)

- Implemented a spam detection model on a labelled yelp dataset, experimented to find similar reviews by text shingling and min-hashing. Implemented rate similarity and review similarity metric to identify potential spam candidates with abnormal behavior.
- Experimented on multiple review features to identify spam review, chose relevant features for model training and compared performance on MLP, KNN, DT, LOG models.

TECHNICAL SKILL

- Datababse: PostgreSQL, MySQL, Sqlite3, Sql Server
- Tools: Git, SaaS, RedPoint, Unica