Hanyu Yang

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OBJECTIVE

I'm a graduate student looking for internship in Software Engineer or Data Engineer. I aspire to engage in Internet of Things and Data Science and Engineering area to pursue a smarter life.

EDUCATION

Carnegie Mellon University, Pittsburgh, PA & Silicon Valley, CA

Master of Science in Information Technology, Mobility, Expected May 2018

Coursework: Introduction to Computer Systems (15-513), Web Application Development (15-637), Information Security (14-741), Computer Networks (14-740), Distributed Systems (15-640), Cloud Computing (15-619)

Singapore Management University, Singapore

Exchange, Information Systems, December 2015, Major GPA 3.9

Zhejiang University, Hangzhou, China

Bachelor of Engineering, Computer Science, July 2016, Major GPA 3.93

EXPERIENCE

Linux Programmer, Assist in programming tasks for Mellon College of Science (Python)

Carnegie Mellon University, Pittsburgh, PA, October - present 2016

- Anomaly analysis on emails of server log files with learning algorithm

Research Student, Experimental Evaluation for Pivot-based Metric Index (C++)

Singapore Management University, Singapore & Zhejiang University, China, September 2015 - May 2016

- Implemented three index structures (LAESA, CPT, EP) for two metric similarity qeuries (Range, kNN)
- Improved query performance by replacing Pivots Selecting Algorithms for three index structures

Back-end Engineer (Intern), Cross-Border e-Commerce Web Application (Java)

Jiayun Data Science and Technology, Hangzhou, China, May - July 2015

- Developed back-end business logic and data access based on Spring and Hibernate framework
- Generated automated scripts for back-end request and response testing with Jmeter

PROJECT

Information Retrieval and Web Search (Python)

Zhejiang University, Fall 2014

- Developed the Crawler, Tokenizer, Stemmer, Indexer and Corrector part of a search engine built for Fox Sports NBA news and players

Smartphone Software Development (Android)

Zhejiang University, Spring 2015

- Designed the Activities logic of a GPS-based real-time bus reminder App and undertook the real-time locating and destination detection part

Student Research Training Program (Python)

Zhejiang University, Spring 2015

- Utilized Arduino to collect and process data from an insole sensor, and designed a gait pattern detection algorithm to trigger tasks

Database System Design (C++)

Zhejiang University, Fall 2014

- Implemented the Interpreter, Catalog Manager and Buffer Manager of a mini database system, in support of all basic standard SQL queries

Software Engineering (PHP + MySQL)

Zhejiang University, Spring 2015

- Wrote the Administrator Control Panel part of a Campus Forum System, to manage the boards and posts in the forum, as well as user privileges

Software and System Security (Assembly + C)

Singapore Management University, Fall 2015

- Exploited Buffer Overflow vulnerability on open source software and performed Return-to-libc attack to print out specific variables

SKILL

- Programming/Scripting Languages: C/C++, Python, Java, JavaScript, HTML, CSS, Android, PHP, Octave
- Frameworks and Tools: Django, jQuery, pySpark, Git, Spring, Hibernate

COURSES

- Machine Learning (Stanford@Coursera), Data Science and Engineering with Apache Spark (UCB@edX), Overview of Internet of Things (NTHU@icourse163)