

Zhiyuan Guo

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Education

Columbia University

M.S. in Electrical Engineering, 3.71/4.0

New York, NY

Sep 2014 – Present(Dec 2015)

Shanghai Jiao Tong University

B.S. in Electrical Engineering, 85.8/100

Shanghai, China

Sep 2010 – July 2014

Work Experience

Member of Technical Staff Intern, VMware Inc.

June 2015 – August 2015

- Worked in Software Defined Data Center team, and focused on datacenter diagnostic project, in which use Bayesian Networks, Logistic Regression, Support Vector Machines algorithm to build model and find root cause of the application-level failure.

Project Experience

Operating Systems, Columbia University

Feb 2015 – May 2015

- Implemented http-servers in C with approaches of multithreads, multi-processes and thread-pool, comparing and analyzing the performance among them.
- Modified kernel and implemented data structures like linked-list and Hash table by hand.
- Implement a scheduler called Freezer, in which implements round-robin algorithm and allocates CPU based on number of freezer polices processes.

Modern Internet SOA, Columbia University

Feb 2015 – May 2015

- Designed and implemented RESTful API in node.js and express framework with the Sakila sample database in Mysql.
- Implemented an API Manager with services like logging, authentication and change detection using node.js, AWS DynamoDB and RedisDB.

Computer Networks, Columbia University

Oct 2014 – Dec 2014

- Wrote a chatting room program based on multiple threading in Java.
- Implemented TCP protocol on basis of simulated UDP transmission in Java.
- Implemented Bellman-Ford algorithm to simulate Border Gateway Protocol in Java.

Research Program, Shanghai Jiao Tong University

Sep 2013 – Nov 2013

- Implemented web crawlers in Java to get information of different professors from Internet and establish relationship networks among them.
- Studied HTML and learned to analyze structures of websites.

Computer Skills

Programming Language: Java, C/C++, Objective-C, Python, R, JavaScript

Tools: MySQL, Matlab, Labview, Xilinx ISE

Honors

Third-Class Scholarship, Shanghai Jiao Tong University

Sep 2011 & Sep 2013