Chongwei Zhu

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OBJECTIVE

Software Engineer

EDUCATION

Cornell University   Aug. 2015 – Dec. 2016

Master of Engineering in Electrical and Computer Engineering, GPA: 3.96/4.00

Zhejiang University, China   Sep. 2009 – Jul. 2013

Bachelor of Science in Electrical Engineering, Chu Kochen Honors College, GPA: 3.66/4.00

SKILLS

Coding Languages: Java, C++, Matlab, Python

Web Development: HTML5, CSS, PHP, JQuery, Angular.js, Node.js

Database: MySQL, PostgreSQL, MongoDB

Mobile Development: Android

Operating Systems: Mac, Unix, Linux

Data Science Skills: Machine learning, Data Mining, Hadoop

PROJECTS

Library Management System   2015 Fall

Designed a book tracking system requested by Cornell Libraries

Client was an Android app for students and library staff to query book location and other information

Server written in PHP was connected to MySQL database and handles RESTful API

Deployed the server to Heroku and re-implemented the server with Node.js and PostgreSQL

Mini-Flickr App   2016 Summer

Mini-Flickr is an image viewing Android app interacting with Flickr APIs using Volley

Features: infinite scrolling, pull refreshing, asynchronous image loading, image searching and store history

Website Design: Golden Opportunity   2016 Spring

The website is used by the community teachers to show their education performance and share resources

Frontend was implemented by Html5, CSS, and PHP with features of image gliding, and commenting

Backend was implemented by PHP handling file uploading, leaving comments and database queries

Designed a MySQL database using ER-diagram

PageRank Calculation with Map Reduce   2016 Spring

Used Apache Hadoop to calculate PageRank values of a graph with more than 600,000 nodes and 1,500,000 edges

Used METIS to partition the nodes into blocks and implemented blocked PageRank which converges faster

Ran the project on Amazon EMR and compared the results of simple PageRank and blocked PageRank

Scalable and Available Website design   2016 Spring

Implemented distributed, fault-tolerant, in-memory session state server running Java Servlet Code

Deployed several application server running Apache Tomcat in AWS EC2 with SimpleDB

COURSEWORK

Introduction to Database Systems(CS4320)   Operating Systems (CS4410)   Introduction to Computer Graphics (CS4620)

Computer Networks and Telecommunications (ECE4450)   Machine Learning for Data Science (CS4786)

Machine Learning for Intelligent Systems (CS4780)   The Architecture of Large Scale Information Systems (CS5300)

Intermediate Design and Programming for the Web (CS2300)