QIAO ZHANG

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OBJECTIVES

Full-time software engineer position starting in January 2016. (With H1b Visa Sponsorship)

EDUCATION

University of Pittsburgh, Pittsburgh, PA
M.S. in Computer Science Sep 2013 – Dec 2015

Beijing Normal University, Beijing, China
B.S. in Computer Science Sep 2009 – May 2013

Coursera (Online Course)
Social Network Analysis (With Distinction), Model Thinking

EXPERIENCE

Software Engineer Internship
Bentley Systems Pittsburgh Jun 2015 – Aug 2015
- Tech Stack: AngularJS, ASP.NET, SQLServer
- Developed user configuration module that can add/modify/delete a user/role/profile/certificate
- Added a Mapbox map to display/edit asset information
- Created several administration functions
- Fixed several SQL queries and cleaned legacy code
- More Details: http://goo.gl/NHucGt

Teaching Assistant
University of Pittsburgh Sep 2013 – May 2015
- CS 1550 Introduction to Operating Systems
- CS 1520 Programming Languages for Web Applications
- CS 0007 Intermediate Programming

SKILLS

- **Proficient**: HTML/CSS, JavaScript (AngularJS, jQuery), C#(ASP.NET), PHP, Java, SQL, Netlogo, Go
- **Intermediate**: Android, Python
- **Basic**: Linux, Mac OS X, C/C++, R, Matlab

FELLOWSHIPS AND AWARDS

Arts and Sciences Fellowship
University of Pittsburgh Jan 2014

Social Work Scholarship
Beijing Normal University Sep 2011

PROJECTS

Simulation of Transactional Row Column Storage
Java Feb 2015
- A transactional row column store that efficiently supports concurrent execution of OLTP (i.e., transactions) and OLAP (i.e., aggregate queries) workloads.
- It simulates concurrent database transactions in main memory (divided into row and column storage) and disk.
- Source Code: http://goo.gl/WXR0wy

Camera Object Tracking Android App
Java (Android), OpenCV Sep 2014
- A single-view color blob object tracking app that utilizes OpenCV Android library.
- It is a research prototype that provides a new input channel (the front camera) that detects an arbitrary color blob and use it as a precise on-screen cursor, which reduces the footprint of the fingertip and allows remote control.
- Source Code: http://goo.gl/KuUfCD

Simple Remote Procedure Call Implementation
Go Sep 2014
- A protocol library based on UDP/IP socket that supports remote procedure calls.
- Achieved load balancing and fault tolerance by applying name resolution and replication respectively.
- Source Code: http://goo.gl/z4AL1n

RapidBoard Virtual Keyboard
Java Sep 2014
- An on-screen virtual keyboard that supports "Swype" input.
- It provides both visual and audio feedback for better user experience and a functional context menu for faster input.
- Demo: https://www.youtube.com/watch?v=MUibU75pujY

Visualization of Settlement Change in Chifeng Region
JavaScript (D3, jQuery) Mar 2014
- A data visualization project that helps the domain experts understand the amount of pottery pieces found in the Chifeng area in a chronological way.
- Source Code: http://goo.gl/qNcAGJ
- Demo: https://www.youtube.com/watch?v=sU4HTDH8LRU