QIAO "ADORA" ZHANG

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OBJECTIVES

Full-time software engineer position starting in January 2016 with strong interest in Web development (full-stack/front-end/backend).

EDUCATION

University of Pittsburgh, Pittsburgh, PA
M.S. in Computer Science *(3.5/4.0) 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 such as using Microsoft report service to check the robustness of the server.
- Found and fixed several SQL query issues, cleaned legacy code to improve project readability and modularity.
- 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*

- Built a transactional row column storage database prototype that efficiently supports concurrent execution of OLTP (i.e., transactions) and OLAP (i.e., aggregate queries) workloads.
- Simulated concurrent database transactions in main memory (divided into row and column storage) and disk.
- Implemented least LRU page replacement algorithm for page swapping.
- Employed the Strict Two-Phase Locking protocol to ensure serializability for transactions.
- Implemented wait-for graphs for deadlock detection. Transactions with deadlocks are aborted.

Camera Object Tracking Android App
Java (Android), OpenCV *Sep 2014*

- Created a single-view color blob object tracking app that utilizes OpenCV Android library.
- Provided 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.

Simple Remote Procedure Call Implementation
Go *Sep 2014*

- Implemented a protocol library based on UDP/IP socket that supports remote procedure calls.
- Achieved load balancing by maintaining a naming server and distribute workload using round-robin mechanism.
- Supported bulk acknowledgement for data packet transmission.
- Achieved fault tolerance by replicating worker threads.

RapidBoard Virtual Keyboard
Java *Sep 2014*

- Implemented an on-screen virtual keyboard that supports "Swype" input.
- Provided 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*

- Provided intuitive and interactive visualization on large dataset for domain experts to understand the amount of pottery pieces found in the Chifeng area in a chronological way.
- Demo: https://www.youtube.com/watch?v=sU4HTDH8LRU