Xin Xin

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OBJECTIVE

Seek full-time position as a Software Engineer or Full Stack Software Engineer in 2018

EDUCATION

Santa Clara University, Santa Clara, California *Sep. 2016 - June 2018 expected*
Master of Science in Computer Science and Engineering **GPA: 3.97/4.0**
Related Courses: Algorithms (A); Object Oriented Analysis, Design and Programming (A-); Database Systems (A); Advanced Web Programming (A); Operating Systems (A), Computer Networks (A), Network Technology (A)

Beijing University of Posts and Telecommunications, Beijing, China *Sep. 2013 - March 2016*
Master of Science in Electronics and Communication Engineering GPA: 3.55/4.0

Jilin University, Changchun, China *Sep. 2009 - June 2013*
Bachelor of Engineering in Communication Engineering GPA: 3.57/4.0

TECHNICAL SKILLS

Programming: Java, JavaScript, Ruby, C/C++
Web Development: JavaScript ES6, React, Node.js, Express, Ruby on Rails, HTML5, CSS3, jQuery, Ajax, Bootstrap
Web Test Automation: Selenium, Maven, TestNG, Jenkins, log4j
Database: SQL, NoSQL, MySQL, MongoDB, PostgreSQL, Oracle Database, SQLite
Knowledge & Tools: Git, AWS, Heroku, Operating System, Object Oriented Design, Cloud Computing, RESTful API, MVC Design Patterns, Test-driven Development, JUnit

PROJECTS

Markdown Pad - [Demo Link] [Github Link] *Sep. 2017 - Nov. 2017*
Keywords: **React, JavaScript ES6, Node.js, Express, HTML5, CSS3, AWS, Git**
- Designed and implemented a cloud-based web application, Markdown Pad, which allows users to write Markdown, dynamically preview the styled content and export it to Markdown or HTML file
- Implemented backend with Node.js and Express framework, and front-end with React, JavaScript ES6, HTML5 and CSS3. Applied React lifecycle methods to load initial Markdown file and highlight the code blocks
- Deployed the web application on Amazon EC2 instance with Git version control

Selenium Automated Tests - [Github Link] *June 2017 - Aug. 2017*
Keywords: **Selenium Web Automation, Maven, TestNG, log4j, Jenkins, Test-driven Development, Java**
- Designed and developed automated testing on Alaska Airlines' website, tested the functionalities such as sign-in, searching and booking flight tickets, using Selenium WebDriver and testing framework TestNG
- Utilized Maven to manage dependencies and used log4j to generate log files and assist in debugging failures
- Integrated with Jenkins to build tests and publish test results

IMDb Movie Search Application - [Github Link] *Jan. 2017 - Feb. 2017*
Keywords: **Java, SQL, Oracle Database, JDBC, GUI**
- Developed a movie search application where users can search movies based on genre, country, year, critics' rating values, movie tags, etc with Java and Oracle Database. Dataset from IMDb and Rotten Tomatoes.
- Designed database schemas and built the relationship among the tables
- Established connection between database and Java application using JDBC and populated the database
- Delivered a friendly Graphic User Interface (GUI) to list the movie attribute options, dynamically displayed options and formed SQL queries corresponding to previous selections

Online Bookstore - [Github Link] *Nov. 2016 - Dec. 2016*
Keywords: **Ruby on Rails, MVC Design Pattern, SQLite, HTML, CSS, JavaScript, Ajax, Heroku, Git**
- Designed and implemented an online bookstore web application using Ruby on Rails MVC framework
- Accomplished interactive web pages and features such as adding books to shopping cart, searching books, managing orders and administrator views with HTML, CSS, JavaScript and Ajax
- Integrated with SQLite as database, deployed the web application on Heroku with Git version control

PROFESSIONAL EXPERIENCE

Cloud Computing Oriented Elastic Optical Network Virtualization
Research Assistant Beijing University of Posts and Telecommunications *Sep. 2014 - Dec. 2015*
Keyword: **Cloud Computing, Network Virtualization, Simulation, C++**
- Designed the overall framework and procedure of the cloud computing oriented virtualization
- Proposed and implemented a dynamic mapping algorithm to map the virtual resources to the physical resources which reduces blocking rate and improves resource utilization rate
- Conducted the simulation to demonstrate the algorithm coded in C++
- Published ***Dynamic virtual optical network mapping based on switching capability and spectrum fragmentation in elastic optical networks*** in OECC 2016, http://ieeexplore.ieee.org/document/7718438/