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Zuqi Li

Education

University of Waterloo
Candidate for Bachelor of Software Engineering
Waterloo, ON

Skills

Java
- Spring Framework
- Hibernate ORM
- JDBC Database Access
- Android Development

C/C++
- Cocos2d-X Framework
- Box2D Physics Engine
- Allegro Library

JavaScript
- JQuery
- D3.js
- highcharts.js

JavaServer Pages
Python
XML
HTML, CSS
SQL

Tools

Version Control
- Git
- SVN

Apache
- Maven
- Ant & Ivy

Liquibase DB Source Control
Eclipse
Vim
Linux

Interests

Piano, guitar, ukulele
Gaming
Hackathons
Table Tennis

Experience

Full Stack Developer – Martello Technologies

January 2015 – April 2015 — Ottawa, ON

- Developed a network monitoring feature for collecting and displaying SIP trunk traffic using the Spring Framework, JavaServer Pages, and JavaScript
- Designed an account recovery system using modern cryptography and Amazon Simple Email Services
- Implemented web application gadgets that analyze and display voice quality data using Java, JDBC Database Access API, and JavaScript
- Programmed various frontend features and improved dashboard UI

Software Design Engineer – Nakina Systems

May 2014 – August 2014 — Ottawa, ON

- Delivered a SOAP web service for managing users and groups using the Java API for XML Web Services (JAX-WS)
- Implemented a password policy system with Java and Hibernate ORM
- Designed algorithms to generate and validate passwords that satisfy the defined password policy
- Developed scripts for the framework administration console using Python

Projects

Terre — February 2015 – Present

A cross-platform visual simulation of star systems for mobile devices. It generates star systems with stable orbits and emulates realistic gravitational forces. Terre also simulates dynamic lighting effects.

C++, Cocos2d-X Framework, Box2D Physics Engine

VReq — November 2014

A client-side web application that creates and displays visual representations of all the course pre-requisites at the University of Waterloo. It was developed within a team of four for University of Waterloo EngHack 2014.

D3.js, HTML, CSS, Waterloo Open Data API

SimpleClickSearch — August 2014 – Present

A Google Chrome Extension that conducts search queries to various search engines using the clicked or highlighted text. Users can customize hotkeys for each search engines.

JavaScript, HTML, CSS, Chrome Storage API

Tower of Hanoi — June 2013

A visual simulation of the recursive solving process of the Tower of Hanoi Puzzle. Designed using the linked-list implementation of the stack ADT.

C++, Allegro Library