

Zhangjun Xu

SOFTWARE ENGINEER

1016 Washington Ave SE Apt.410A, Minneapolis, Minnesota, USA, 55414

☎ (+01) 612-607-9051 | ✉ xuxx0987@umn.edu

Education

University of Minnesota – Twin Cities

Minneapolis, Minnesota

B.A. IN COMPUTER SCIENCE

Sep. 2015 - PRESENT

- GPA 3.38 · Expect Jun 2017

Winona State University

Winona, Minnesota

B.S. IN COMPUTER SCIENCE

Sep. 2012 - Aug. 2015

- GPA 3.6

Skills

Programming JAVA, Clojure, Python, C++, LaTeX

Software Eclipse, IntelliJ, Emacs, GitHub, Vim, Tmux

Operation System Mac OS, Linux

Coursework

Algorithm and Data Structure · Advanced Programming · Machine Architecture and Organization(In Progress) · Program Design and Development(In Progress) · Practice of Database Systems(In Progress)

Project

Message Encryption Engine

Minneapolis, Minnesota

DEVELOPER | TECH STACK: CLOJURE

Mar. 2016 -Apr. 2016

- Applied the RSA algorithm to protect sensitive information from leaking outside.
- Enhanced the security by applying randomized algorithm for the choose of the public key.
- Developed some unit test to ensure the correctness of the algorithms used in this project.

Ball Bounce Game

Minneapolis, Minnesota

DEVELOPER | TECH STACK: CLOJURE

Apr. 2016 - May. 2016

- Developed a mini ball Bounce game in Clojure
- Utilized existing library Quil combine with ball bounce algorithm and map for sketch.
- Implemented Ball Bounce algorithm follow by law of physics, and the game will terminates by estimate collision algorithm.

Space-efficient Map Implementation

Minneapolis, Minnesota

DEVELOPER | TECH STACK: JAVA

Apr. 2016 - May. 2016

- Implemented and redesigned Bloom Filter by using bit array which improve the space efficiency.
- Developed multiple hash function to distribute hash value evenly in the range of 0 and 32.
- Improved the efficiency of the vocabulary search in Dictionary.

A simple syntax parser for code

Minneapolis, Minnesota

DEVELOPER | TECH STACK: JAVA

Oct. 2015 - Dec. 2015

- Implemented a compiler's name table using Java.
- Utilized varies data structure such as Stack and HashMap to build Symbol Tree
- Constructed a complex data structures by combined stack with BST algorithm.

Activities

Leader of International Orientation, Winona, MN

Winona, Minnesota

TEAM LEADER

Aug. 2014 - Sept. 2014

- Guided and advised new international students on course registration and provided teaching materials.
- The activities enhanced my practical ability and personal qualities, and improved my team work spirit.
- Led 10 new international students under the Winona State University International Student Office's direction