

# Jim Xu

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## Education:

**Colorado State University**, Fort Collins, CO  
3rd Year of B.Sc. Degree in Computer Science

4.0/4.0

Aug 2016 - Now

**Central China Normal University(CCNU)** (2+2 program)  
B.Sc. Degree in Computer Science

86.81/100

Aug 2014 - May 2016

## Research & Projects:

### **Trip Planer Application**

2017

- Completing semester long team project using Scrum and Test Driven Development
- Developed javafx GUI
- Developed online web server based on glassfish and javax
- Used JUnit and EcEmma to design the java program

### **Using Dijkstra's Shortest Paths to Route Packets in a Network Overlay**

Feb 2017

- Constructed a logical overlay over a distributed set of machines
- Designed shortest paths using Dijkstra's algorithm to route packets in the system
- Used Java and based on TCP

### **Using Thread Pools to Manage NIO Network Messages**

Mar 2017

- Designed own thread pool implementation without using java.util.concurrent
- Used thread safety topology
- Used thread pool integrated with NIO

## Honors & Awards:

CSU College of Natural Science Dean's List

2017

Software Engineering Honor Student

2017

Colorado State University Admission Scholarship

2016

CCNU CS First Rate Scholarship (top 10)

2015

CCNU A Group Project — Using RFID to Supervise House Decoration

2015

Twelfth ACM Programming Contest affiliated university in central China Tenth ACM

Invitational, The Third Prize

2015

The First CCF Internet Application Design Contest, The Third Prize

2015

CCNU CS First Rate Scholarship (top 10)

2014

CCNU Computer College ACM Programming Contest, The Second Prize

2014

CCNU English Competition, The First Prize

2014

**Skills:**

Proficient in C++ programming and Java programming; Capable of Mapreduce programming; Skilled with Bioinformatic Modeling and Algorithm; Experienced with designing program with TCP and NIO using thread pools; Knowledge of Git/GitHub, JUnit, Scrum, TDD, MVP.

**Core Courses:**

Object-Oriented Programming(C++) 87, Java Language Programming 97, DataBase 92, Algorithms and Data Structure A+, Operating Systems A+.

**Activities:**

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|--|---------------------|
| Membership in Chinese Student & Scholars Association   | Aug 2016 - Now      |
| • Responsible for organizing campus events, like Spring Festival, International Festival, and Voice of CSU |                     |
| Membership in Student Association (CCNU)   | Aug 2014 - May 2016 |
| Volunteer in welcoming freshmen in CCNU  | Aug 2015 - May 2016 |
| • Responsible for welcoming in train station, guiding in campus, Q&As                                      |                     |
| Leader of CCNU 2014 ACM Team   | Nov 2014 - May 2016 |
| • Responsible for organizing competition, tutoring and training  |                     |
| Academic leader of a college class   | Aug 2014 - May 2016 |
| • Responsible for invoking enthusiasm, organizing academic events  |                     |