Jingwu Xu

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Education:

University of California San Diego (UCSD), La Jolla, CA — Sep 2018 – Jun 2020
M.S. Degree in Computer Science

Colorado State University (CSU), Fort Collins, CO — Aug 2016 – May 2018
B.Sc. Degree in Computer Science — GPA: 4.0/4.0

Central China Normal University (CCNU) — Aug 2014 – Jul 2016
B.Sc. Degree in Computer Science — GPA: 86.81/100

- CS First Rate Scholarship (top 3%)
- Twelfth ACM Invitational Programming Contest Central China Affiliated Universities, The Third Prize
- The First CCF Internet Application Design Competition, The Third Prize

Relevant Skills:

- Python, Java, C++, Javascript, HTML5
- Git, Spark, Servlet, MLlib, MapReduce, Django, VueJS, JUnit, Waterfall Model, Agile

Relevant Research & Projects:

Feature Extractions and Named-Entity Recognition — Apr 2018 – May 2018

- Pre-processed raw text and formulated feature selection rules for maximum entropy
- Performed data transformation using Brown cluster, word2vec and Stanford POS Tagger
- Compared NN models with different Hidden Layer Structures and Activation Functions
- Achieved high prediction accuracy based on Stanford NER library using 5 layers NN

Risk Game Web Based Application — Mar 2018 – May 2018

- Implemented with Object-Oriented design patterns such as Composite and Façade
- Simulated risk game flow by following MVC pattern and communicating over Javax Servlet
- Used Junit unit tests for functionality codes and Mockito tests for servlet communication

United States Census Data Analysis Using MapReduce — Apr 2017 – May 2017

- Set up Apache Hadoop and Yarn cluster with HDFS running on every node out of 15 machines
- Developed MapReduce programs that parse and process the 1990 US Census dataset
- Extended on Spark for performance and experienced prediction tasks with PySpark ML library

Using Dijkstra's Shortest Paths to Route Packets in a Network Overlay — Feb 2017 – Mar 2017

- Implemented TCP based network multi-nodes communication with concurrent locks
- Integrated Dijkstra's Shortest Path Algorithm to randomly generate overlay graph that resides the nodes
- Experienced with multi-threads which separately responsible for sending, receiving and processing messages

Relevant Experiments & Activities:

Software Developer Intern, *Skyoo LLC.* — May 2018 – Sep 2018

- Brainstorming ideas, designing models, developing features and improving UI/UX
- Developed Vue.js frontend with Webpack and EventBus, and Django REST framework
- Fixed bugs, integrated calendar system with timezones, and extended coupon system

Teaching Assistant, For Algorithms Theory and Practice, CSU — Aug 2017 – May 2018

- Assisted the instructor with developing slides, worksheets, quizzes, exams and classes
- Evaluating assignments, discussing algorithms, and holding office hours for Q&As

Leader of CCNU ACM Team, CCNU — Nov 2014 – May 2016

- Participated regional universities ACM contests, and received two Third Prizes