

# Jonny (Zhaoning) Kong

Los Angeles, CA 90024 • (310) 498-9627 • [github.com/JonnyKong](https://github.com/JonnyKong) • [jonnykong1996@gmail.com](mailto:jonnykong1996@gmail.com)

## Education

### University of California, Los Angeles (UCLA)

M.S. in Computer Science

Expected Jun 2020

Los Angeles, U.S.

- Relevant Coursework: Web Applications, Cryptography, Advanced Computer Architecture

### Beihang University

B.S. in Automation and Electrical Engineering

Jun 2018

Beijing, China

- GPA: 91.51/100, 3.90/4.00      Ranking: 2/173
- Awarded the National Scholarship of China, Ministry of Education (1% in Beihang University)
- Outstanding Graduate of Beihang University
- Relevant Coursework: C programming, Algorithms & Data Structures, Computer Systems, Machine Learning

### University of Toronto

Sep 2017 – Dec 2017

Ontario, Canada

- Exchange student in Computer Science, GPA: 3.94/4.00
- Relevant Coursework: Operating Systems, Computer Networking, Databases

## Skills

**Programming Languages:** C/C++, Java, Python, SML, Ruby, Racket, Bash, JavaScript

**Tools:** Unix/Linux, macOS, gcc/gdb, valgrind, Git, vim, SQL, Docker, Apache Tomcat, Apache Kafka, TensorFlow, AWS

**Specialization:** Back-end, System programming, C/C++

**Languages:** Mandarin (Native), English (Fluent)

## Work Experience

### NetEase Inc.

Mar 2018 – July 2018

Software Developer Intern

Beijing, China

- Worked with a team of 15 people to construct the back-end of a news search service (80M+ news entities)
- Replaced HTTP with Apache Kafka to transport insert/delete requests for the search service
- Expedited search service restart time by 4 times by building reverse index from data files
- Cooperated with NLP team over Apache Thrift and Tornado to improve search results
- Built a HTTP service for front-end teams to retrieve news keywords using Tornado and MySQL

### Intelligent Computing Lab, Beihang University

Mar 2017 – Jun 2017

Research Assistant

Beijing, China

- Analyzed sentiment (positive / negative) of online stock comments
- Constructed a sentiment-based LSTM neural network to predict stock volatility

## Relevant Course Projects

### Online Markdown Editor (CS144 Web Applications, UCLA, ongoing)

Sep 2018 - Present

- Implements markdown editor website with MySQL and Apache Tomcat
- Deploys website in a Docker container
- Migrates the website to MongoDB, Node.js, Express and Angular

### Instant Messaging Protocol (ECE361 Computer Networking, University of Toronto)

Oct 2017 – Dec 2017

- Designed a service to host multi-user instant messaging with group-chat support
- Built an FTP-like protocol from UDP to transfer files of arbitrary size
- Implemented flow control and congestion control with UDP
- Used Unix TCP sockets in C to implement client & server

### Ext2 File System (CSC369 Operating Systems, University of Toronto)

Oct 2017 – Dec 2017

- Coded tools to modify ext2-format virtual disks, including *ls*, *cp*, *mkdir*, *ln*, *rm* command and *-r* flag