

Zhaoning (Jonny) Kong

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Education

University of California, Los Angeles (UCLA)

Expected Jun 2020

M.S. in Computer Science

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

Beihang University (BUAA), Beijing, China

Jun 2018

B.S. in Automation and Electrical Engineering

- 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, Ontario, Canada

Sep 2017 – Dec 2017

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

Skills

Programming Languages: C/C++, x86 Assembly, Java, Python, SML, Ruby, Racket, bash

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

Specialization: System programming, C/C++

Languages: Mandarin (Native) & English (Fluent)

Experience

NetEase Inc., Beijing, China

Mar 2018 – July 2018

Software Developer Intern

- Worked with a team of 15 people to construct a news search engine (80M+ news entities)
- Replaced HTTP with Apache Kafka to de-synchronized communication between news source and search engine
- Cooperated with NLP team over Apache Thrift and Tornado to improve search results
- Expedited search service restart time by restoring reverse index from data files
- Built a HTTP service for front-end teams to retrieve news keywords using Tornado and MySQL

Intelligent Computing Lab, Beihang University, Beijing, China

Mar 2017 – Jun 2017

Research Assistant

- 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 in UCLA, ongoing)

- Implemented markdown editor website with MySQL and Apache Tomcat
- Deployed website in a Docker container
- Migrated the website to MongoDB, Node.js, Express and Angular

An Instant Messaging Protocol (ECE361 Computer Networking in University of Toronto)

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

Ext2 File System (CSC369 Operating Systems in University of Toronto)

- Coded tools to modify ext2-format virtual disks, including *ls*, *cp*, *mkdir*, *ln*, *rm* command and *-r* flag
- Supports large files up to 2TB (theoretically)