# LINGFAN KONG

(608)421-3256 <u>lkong5@hawk.iit.edu</u> www.linkedin.com/in/lingfankong

### Education

Illinois Institute of Technology, Chicago, IL - Master's degree, GPA: 3.80

Computer Science

Aug 2015 - May 2017

Courseworks: Cloud Computing, Parallel and Distributed Processing, Operating System, Algorithms, Database, Data Structure, Advanced Network.

Gengdan Institute of Beijing University of Technology, Beijing China- Bachelor's degree

Communications Engineering

Sep 2008 - Aug 2012

## **Working Experience**

Shenlian Tech Inc., Beijing, China - Software Development Engineer

Aug 2012 - Aug 2014

SmartHome Android App

• Built an Android app for "SmartHome" System, defined communication protocol between app and server. Also implemented a real time notification receiver to update controller and sensor status.

Internet-of-Things Evaluation System

• Built an Internet-of-Things evaluation system based on Zigbee protocol and implemented a Android app to virtualize results.

ICT Chinese Academy of Sciences, Beijing, China - SDE, Intern

May 2012 - July 2012

• Implemented a wireless communicating software on AVR® microcontroller.

## Languages and Technologies

Programming Languages: Java, C/C++, Python, C#, SQL.

Development Tools: Atom, Vim, PyCharm.

Platforms: AWS, Linux (POSIX), Windows, Hadoop, Spark, MPI, OpenMP.

Github: <a href="http://github.com/konglingfan">http://github.com/konglingfan</a>

# **Projects**

#### **Probe Data Analysis for Road Slope**

Feb 2017 - Apr 2017

- Matched probe points to road links from map data.
- Derived road slope for each road link.
- Evaluated the derived road slope with the surveyed road slope in the link data file.

### CloudKon clone with Amazon EC2, S3, SQS, and DynamoDB

Mar 2016 - Apr 2016

- Implemented a distributed task execution framework on AWS using EC2, SQS (Simple Queue Service), and DynamoDB (NoSQL DB).
- CloudKon: http://datasys.cs.iit.edu/publications/2014 CCGrid14 CloudKon.pdf

### TeraSort on Hadoop/Spark

Jan 2016 - Feb 2016

• Built a computing grid on AWS EC2 using d2.large instances and used Hadoop and Spark to sort a 1-terabyte dataset in this 17 nodes distributed system (1 master node and 16 slave nodes).

### Theater selling and managing system

Nov 2015 - Dec 2015

- Built a Java web application that allows users to buy tickets and leave comments.
- Provided a system to manage scheduling and workers' information using Oracle database and JSP/JavaBeans.