HANSHANG LI

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TECHNICAL STRENGTHS

Computer Languages	C, C++, Python, Java, HTML, SQL
Platform and Tools	Xcode, Matlab, Eclipse, Vim, OPNET, NS-2, Linux, MySQL
Proficient Background	Algorithm, Networks, Data Structure, Machine learning, Data Analytic

EXPERIENCE

University of North Carolina at Charlotte August 2014 - Present
Research Assistant *Charlotte, NC*

- Improved data analytics of social network dataset of D4D cellular networks and Gowalla data through statistics to learn and predict people mobility patterns.
- Implemented online learning of data quality using Combinational Multi-armed Bandit.
- Implemented data aggregation of mobile crowdsening though multiple statistics methods.
- Designed and implemented algorithms and systems for Mobile Crowdsensing using C++ and Matlab.
- Designed and implemented algorithms for big data collection through opportunist networks using C++.

Harbin Institute of Technology August 2012 - July 2014
Research Assistant *Harbin, China*

- Designed and implemented CDMA based MAC protocols and system for Wireless Sensor Networks using OPNET, NS-2 and Matlab.
- Designed and implemented algorithms for aircraft path planning using Matlab and C++;
- Designed and implemented algorithms for networks on chip using C;
- Developed audio and video transmission through Zigbee sensor networks using Vim and Modelsim.

PROJECT

Implementation of standard network protocols August 2012 - July 2014

- Implemented ARP, ICMP and TCP/IP structure in Java-Eclipse environment.
- Implemented routing protocols such as RIP, BGP and OSPF in Java-Eclipse environment.
- Implemented standard security algorithms including BM, KMP, KR and AC in C++-VS enviroment.

Development of instant chat software August 2012 - July 2014

- Designed and implemented instant chat software in UDP and TCP respectively in Java-Eclipse environment.

Database system implementation August 2014 - July 2015

- Implemented Database management system and operated using MySQL.

EDUCATION

University of North Carolina at Charlotte *December 2017(expected)*
Ph.D. in Computer Science
Overall GPA: 3.92

Harbin Institute of Technology *July 2014*
M.S. in Computer Science
Overall GPA: 3.2