

# QINGLIN LI

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## EDUCATION

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**Northwestern University**

SEP 2015 - DEC 2016 (Expected)

M.S. in Computer Science

Coursework: Machine Learning, Biometrics, Data Science

**Shanghai Jiao Tong University, China** *GPA: 3.5/4.0*

SEP 2011 - JUN 2015

B.S. in Computer Science & Engineering

Coursework: Statistical Learning, Scientific Computing, Algorithms, Operating System, Computer Network, Database, Computer Architecture, etc.

## SKILLS

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**Programming Languages**

C/C++, Java, Ruby, Python, MATLAB

**Application Development**

HTML, CSS, Bootstrap, Ruby on Rails, Java Swing

**Machine Learning & Vision**

scikit-learn, scikit-image, OpenCV

**Tools & Others**

Vim, L<sup>A</sup>T<sub>E</sub>X, Linux/Mac OS X, MySQL, Git

## EXPERIENCE

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**Research Intern** *Microsoft Research Asia, Beijing*

AUG 2014 - FEB 2015

Team: Natural Language Computing, Mentor: Dr. Mu Li

- Collected text data from Internet and analyzed the English-Chinese relationship with rules, using Python and Mechanize.
- Implemented a graphical model to solve entities translation problem between English and Chinese knowledge bases by utilizing the relations between entities. Outperformed traditional machine translation algorithms. Using Python, NumPy and scikit-learn.

**Research Student** *BCMI Lab, Shanghai Jiao Tong University*

JUL 2013 - AUG 2014

Research Area: Computer Vision, Mentor: Prof. Liqing Zhang

- Worked on mining rich low-level computer vision features and testing different regression models to solve crowd density estimation problem, using Python, scikit-learn and OpenCV.

## COURSE PROJECTS

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**Database System Lab** *Shanghai Jiao Tong University*

FALL 2014

- Developed a relational database system supporting JDBC interface including SQL parser, query engine and file storage in Java.

**Nachos Operating System Lab** *Shanghai Jiao Tong University*

FALL 2013

- Implemented threading and multiprocessing, virtual memory, and a self-designed file system within the Nachos operating system in Java.

**Compiler Lab** *Shanghai Jiao Tong University*

SPRING 2013

- Developed a compiler supporting most features of C Language and targeting the MIPS architecture including parser, syntax checking and linear scan algorithm for register allocation in Java.

**Computer Architecture Lab** *Shanghai Jiao Tong University*

SPRING 2013

- Simulated a CPU with Tomasula algorithm for dynamic instruction scheduling in Verilog.

## HONORS

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**Ranked 4** out of 146 in ACM-ICPC Mid-Central USA Regional Contest

2015

**Second Prize** in Mathematical Contest in Modeling (MCM)

2014

**Teaching Assistant** of C++ programming course in Shanghai Jiao Tong University

2013