

# PENG MENG

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## EDUCATION

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### Northwestern University

September 2014 - December 2015

Master in Computer Science    GPA: 3.81/4.0

Courses: Machine Learning, Distributed Systems, Natural Language Processing, Data Mining (Weka)

### University of Science and Technology Beijing

September 2010 - June 2014

B.S. in Computer Science    GPA: 3.64/4.0

## WORK EXPERIENCE

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### Intern at Baidu Beijing

July 2015 - September 2015

Research and Development Intern

Baidu, China

- Work in Baidu Index group, in charge of data processing, product upgrade and maintenance
- Complete data processing job for several special data topics using Python, Perl and Hadoop
- Upgrade one module mining related query words based on user query log in the next generation product

## PROJECT EXPERIENCE

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### Stock Analysis Project - Machine Learning

September 2015 - December 2015

Developer

Northwestern University, USA

- Implement a web crawler that downloads Wall Street Journal news from an education database
- Analyse the relation between number and sentiment of titles and stock trading volume and price
- Analyse the sentiment of news using Recurrent Neural Network algorithm

### Kademlia Distributed Hash Table - Distributed System

March 2015 - June 2015

Lead Developer

Northwestern University, USA

- Implement Kademlia Distributed Hash Table and Vanish-like self-destructing data system using Golang
- Design and implement Kademlia routing table and distributing algorithm in Vanish-like system
- Write test cases for multi-node environment simulating

### Natural Language Processing Project

February 2015 - March 2015

Lead Developer

Northwestern University, USA

- Implement program that analyses twitter data about Golden Global Prize and Allrecipe website data
- In charge of extraction and analysis of key data like Winner, Presenter and Best Dressed
- Responsible for recipe data crawling based on key word or url and transformation among recipes
- Develop a tiny web application based on Flask framework

### Web Crawler Framework - Personal Project

March 2015 - Present

Developer

Northwestern University, USA

- Design and implement a scalable and customizable python web crawler framework
- Implement several general crawler modules like scraper with cookie and different types of frontier
- Design and implement pythonic Redis interfaces based on redis-py for frontier implementation

## TECHNICAL STRENGTHS

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### Computer Languages

Python, JAVA; Go, Common Lisp, C

### Databases

MongoDB, Redis, MySQL

### Tools

Hadoop, Vim, Git, Latex, Weka