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# Zexi Han

Gender: Male

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## Education Background

**Northeastern University**, Boston, MA

Jan. 2017-Present

College of Computer and Information Science

Expected graduation: Dec. 2018

*Candidate for a Master of Science in Data Science*

Major Courses: Algorithms, Machine Learning, Data Mining, Nature Language Processing, Advanced Computer Vision, Parallel Data Processing in MapReduce

**Beijing University of Posts and Telecommunications**, Beijing, China

Sept. 2012-Jun. 2016

Joint Program with Queen Mary University of London

GPA: 85.1/100

*Bachelor of Science in Telecommunications Engineering*, with the First Class Honors

Major Courses: Data Structures, Artificial Intelligence, Software Engineering, Linear Algebra, Probability Theory and Stochastic Process, Principles of Communications

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## Technical Knowledge

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|----------------------|---|
| •Language            | JAVA(major), R, MATLAB, Python, C                                     |
| •System              | Windows, Linux, macOS   |
| •Machine Learning    | Linear/Logistic Regression, SVM, (Convolutional) Neural Networks, kNN |
| •Deep Learning Tools | Caffe   |

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## Research Experience

**05/2016-07/2016**

***Research Intern, Edge Sensing of Smart Watch***, Institute of HCI and Media Integration, Tsinghua University

- Discovered a brand new human computer interaction of smart watch – Edge Sensing
- By tapping from 4/6/8 directions of the edge, smart watch could identify the motion direction with its accelerator and respond with certain interaction in its android wear software
- Machine learning techniques were used to do the classification of accelerator's motion data

**08/2015-06/2016**

***Research Intern, Image Feature Representation and Rapid Retrieval with Deep Neural Networks***, National Laboratory of Pattern Recognition at the Institute of Automation of the Chinese Academy of Sciences

- Proposed a Three-stage Hybrid Image Retrieval Framework (Classification, Object Detection and Matching) to the task of same design product image retrieval with Deep Learning (CNN)
- Experimented on the ALISC 5 million dataset with 10 high level concepts and 676 sub concepts
- Achieved the best mAP of 57.5 % on makeup and good performance on tops, snacks and drinks

### Achievements:

- Elected as the **BUPT Outstanding Final Project (12/600+)**

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## Project Experience

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10/2015-02/2016

*Selected Representative, Design & Build Winter Hack, QMUL*

- Attended the interesting and exciting robot tutorials given by the experts from the UK
- Teamed up with selected 10 British and 10 Chinese students to work on D&B Hack NAO Robot competition at EECS Electronics Lab of QMUL
- Sensor control and python based image recognition algorithms were implemented

### Achievements:

- Won the **Winning Team** in the competition

07/2014-09/2014

*Team Leader, Electronic Keyboard Scientific Project, BUPT*

- Designed circuits according to the functional objectives
- Got better acquainted with the single chip microcomputer

### Achievements:

- Scored 97 and won the chance of participating in the trial for Design & Build Winter Hack in London (60/600+)

05/2014-05/2015

*Team Leader, Development of MEBO Visualized Microenvironment Monitoring System, BUPT*

- Completed the embedded system development and the network connection with multi-sensors
- Realized the visualization design of indoor microenvironment and innovative interaction design
- Received wide acclaim in the innovation exhibition and deputized for the team at innovation conference

### Achievements:

- Won **The Second National Prize** at the innovation exhibition

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## Online Courses

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10/2016-11/2016

**Data Science: Data to Insights**, MIT Professional Education & MIT Institute for Data, Systems, and Society (IDSS)

09/2016-11/2016

**Data Structures and Algorithms**, BITTIGER

07/2016-09/2016

**Machine Learning**, Coursera & Stanford University

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## Honors & Awards

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06/2016

First Class Honors Degree

06/2016

**BUPT Outstanding Final Project**

02/2016

Winning Team in Design & Build Winter Hack

05/2015

**The Second National Prize In Innovation Project**

09/2012-09/2015

The Third-Class Scholarship

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## INTERESTS

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- Artificial Intelligence
- Computer Vision
- Fine Arts