Minke Xiu

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EDUCATION

- **Beihang University**
  BSc in Computer Science and Engineering (expected in July, 2018)

  Beijing, China
  2014 - 2018
  - GPA overall: 3.32 till present.
  - GPA over past 2 years (60 units): 3.66

GRE & ENGLISH SKILLS

- GRE general tests: 158(Verbal) + 170(Quantitative) + 3.5(Analytical Writing)

- TOEFL scores: total - 101 (Reading:30, Listening:26, Speaking:23, Writing:22)

EXPERIENCE

- **Bachelor's Major Course Projects, Beihang University**
  Student

  Beijing
  2014/09-Present
  - Experiments of Computer Organization and Architecture: Implemented a 50-command CPU. (2000+ lines of code in Verilog)
  - Object-Oriented Modelling Technology: Implemented several Java multi-thread concurrent programs, simulating scenarios like taxis distribution, elevators management, monitoring of file modification. (2000+ lines of code in Java)
  - Foundations of Cryptography and Practices: Learned and implemented several classical algorithms in Cryptography, including DES, AES, RSA, Hash functions, and ECC. (1200+ lines of code in Python)
  - Principle of Database Systems and Course Project: Implemented a highly regarded practical PE-Facility-Management system in Python and MySQL. (nearly 3000 lines of code in Python & MySQL)
  - Compiler Theory and Course Project: Implemented a compiler for extended C0 grammar, including parts like lexical analysis, syntax analysis, intermediate code generation, memory management, assembly code generation, optimizer and so on. The compiler can tackle recurrent situation. (2000+ lines of code in C++)

- **Software Engineering Institute, Beihang University**
  Researcher

  Beijing
  2016/05-Present
  - Having been working on the topic of telling the relationship between quality of a software and GitHub users' composition using methodology of data analytics.
  - Got familiar with processes like data gathering, data storing, metrics calculation, model fitting, model analysis and data visualization.
  - Learned knowledge about statistics, web crawler, natural language processing.

- **Advanced Computer Technology Institute, Beihang University** Beijing
  Researcher of Industrial Control System Security Group *2016/10-2017/03*
    - Took part in the building of a surveillant system that analyzes patterns using data of web attack on industrial control equipment.
    - Had experienced in managing massive data in MySQL database.
    - Got acquainted with the development of the web backend development.

- **Advanced Computer Technology Institute, Beihang University** Beijing
  Researcher of Energy Efficient Computing System Group *2017/07-2017/10*
    - Worked on the issue of recognizing modulation type through the analysis of radio signal data.
    - Gained some knowledge and hands-on experience of deep learning algorithms.

IT SKILLS

- Adept programming languages: Python, MySQL, Java, etc.

- Python Packages: PyMySQL, PyQt, Scrapy, nltk, Django, Keras, etc.

- Familiar languages: C, C++, R, Verilog, etc.

- IDEs: Eclipse, Visual Studio, PyCharm, RStudio, etc.

- Others: Microsoft Word, Excel, PowerPoint, Latex, Focusky, Prezi etc.

Awards, Grants & Honours

The Third Prize Scholarship of Academic Excellence: Beihang University 2017
Merit student: Beihang University 2017
Outstanding Thesis of Practice in Production: Beihang University 2017
Excellent Student Cadre: Beihang University 2016
The Third Prize Scholarship of Social Work: Beihang University 2016
Advanced Individual in Winter Holiday Social Practice: Beihang University 2015