

# Xiyuan Zhao

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## EDUCATION

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**School of Computer Science and Engineering, University of Electronic Science and Technology of China, Chengdu, China**

Bachelor of Computer Science

Sep. 2016- July 2020 (expected)

Major GPA: 3.9 / 4.0

Core Courses: Computer Vision (4.0/4.0) / Principle and Application of Database (4.0/4.0) / Digital Image Processing (4.0/4.0) / Digital Logic (4.0/4.0) / Programming (C&C++) (4.0/4.0) / Computer graphics (4.0/4.0) / Advanced Computer Graphics (4.0/4.0) / Principles of Computer Organization (4.0/4.0) / 3D Graphics Programming(4.0/4.0) / Audio and Video Processing (in process) / Machine Learning (in process)

Mathematic: Calculus, Linear Algebra and Geometry, Discrete Mathematic, Probability Theory and Statistics

## RESEARCH EXPERIENCE & PROFESSIONAL EXPERIENCE

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**Intelligent Vehicle Assistant Based on Deep Learning CNN Model, Tsinghua University, China**

Jan. 2019

Research Assistant

Supervisor: *ZiHan Huang*, Tsinghua University

- ✧ Completed the algorithm of vehicle detection based on HOG and SVM techniques.
- ✧ Implemented gradient descent optimization algorithm for practical problems.
- ✧ Wrote example programs for tasks of Boston\_Housing classification, Cat vs. Dogs classification and Traffic Sign Identification by CNN, using Python packages including TensorFlow, Scikit-Learn, Matplotlib-pyplot.

**Video Haze Removal Based on Dark Channel Prior Method, University of Electronic Science and Technology of China, China**

May 2018

Team Leader

Supervisor: Professor *Jie Shen*, CCSE, UESTC

- ✧ Made extensive study on statistics of haze-free outdoor images and computer graphics, and generated RGB channel model of pictures which fits dark channel prior method.
- ✧ Further modified and applied haze removal algorithm on videos and adjusted parameters to achieve optimal performance.

**Representation Learning on Networks, University of Electronic Science and Technology of China, China**

Aug. 2018

Research Assistant

Supervisor: Professor *Shimin Cai*, CCSE, UESTC

- ✧ Learned the theories of representation learning on network, mathematical principles of node2vec and deepwalk, and measured efficiency of different embedding techniques and similarity functions.
- ✧ Implemented the node2vec algorithm.

**Design of Vehicle Rental Management System, University of Electronic Science and Technology of China, China**

Jul. 2018

Independent Work

Supervisor: Professor *Wang Hu*, CCSE, UESTC

- ✧ Built the framework and database of the management system and realized Java classes of car, rental information, and profit statistics.
- ✧ Connected database with Java classes by Hibernate.
- ✧ Achieved and integrated the function of adding, deleting, altering and searching rental information in database as well as calculating profits through Hibernate.

## SKILLS

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### ✧ Computer Skills:

Programming Language: Proficient in Python, C, OpenCV, OpenGL; Familiar with C++, Java

Software: Deep Learning packages including Tensorflow, Scikit-Learn, Keras; Data Analysis tools including Matlab, Echarts

### ✧ Language Skills:

TOFEL iBT: 102 (Listening 27, Speaking 23)