

## Haoyan Xin

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### Education Background

#### University of California, San Diego

*San Diego, CA, US*

- **Degree:** MSc in Data Science and Machine Learning

09/2021 - now

#### Southwest Jiaotong University

*Chengdu, Sichuan, China*

- **Degree:** BSc in Computer Science
- **GPA:** 3.96/4.0 & 94.2/100 (Major), 3.86 / 4.0 & 90.02/100(Overall)

09/2017-07/2021

#### University of Leeds

*Leeds, UK*

- **Degree:** BSc in Computer Science

09/2017-07/2021

### Skills

- Python, C, C++, Java, JavaScript, MATLAB
- Data visualization, Data Analysis, Project management, Machine Learning, Deep Learning,

### Project Experiences

#### Image Caption Generator based on CNN-LSTM Architecture

*01/2022 - now*

- Generate an image's caption using deep generative models
- Choose NIC image caption generator proposed by Google as baseline
- Improve the baseline model by adding an attention module, replacing the original CNN with Inception v4 model, replacing the original LSTM with the mogrifier LSTM model.

#### Software Engineering Project: Online Ticket Booking system (Mobile application) and Cinema Information Management system (Web application)

*03/2020-05/2020*

- Analyzed the requirements of the project;
- Designed and developed MySQL database; Developed the UI of web application using HTML/CSS/Javascript/JQuery and back-end services of the system using Spring boot; Wrote development reports;
- Designed and executed test cases and wrote test reports.

### Intern Experiences

#### Beijing Awesomemo Technology Co. LTD.

#### Quality Assurance Department

*Beijing*

#### Test Engineer Intern

*05/2019-08/2019*

- Responsible for regression test and testing new functions after releases of the software;
- Traced and submitted bugs of the ATS software;

#### Test Engineer Intern (Leader)

*08/2019-04/2020*

- Built project test cases and project test plan of the whole HRS software;
- Assigned work to team members and organized weekly meetings;
- Communicated the work content with the engineering team and project managers from Indeed Company.

### Publication

#### Intelligent Transportation System Design Based on Artificial Intelligence

*09/2019*

Published in China Science and Technology Innovation Herald, **First Author**, p99, 2019-09-01, Total 493, Issue 25, 2019.

- Designed an intelligent transportation system based on artificial intelligence, including three modules: whistle detection and positioning system, license plate recognition system, and user system;
- Described the core algorithms used in the system.