KE ZHAO

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EDUCATION

North Carolina State University   Aug. 2018 - Present

M.S. in Computer Engineering, Expected May 2020

Relevant Course: Neural Networks, Object-Oriented Design and Development, Computer Networks, Introduction to Computer Performance Modeling

Jilin University   Sept. 2014 - June 2018

B.E. in Optoelectronic Information Science and Engineering(Optical Communication)

SKILLS

Languages	Java, Python, Ruby
Web Technologies	Ruby on Rails, HTML, CSS
Databases	SQLite, MySQL
Frameworks	ELK Stack, TensorFlow, Keras
Operating Systems	Linux, Windows
Tools	Git, Heroku, AWS, Rspec, LaTeX, PuTTY

SELECTED PROJECTS

Expertiza   Jan. 2019 - Present

· An open source project written in **Ruby on Rails** through which students can submit and peer-review course-related assignments
· Revised Log page to make it easy to search and analyze log information
· Implemented ELK Stack to analyze log information with visualization
· Wrote unit test using Rspec and achieved 100% path coverage

Queuing System Discrete Event Simulation   Oct. 2018 - Nov. 2018

· A course project written in **Python** for event simulation
· Simulated the process that customers randomly come into multiple lines to be served
· Implemented event-scheduling method to update time when events occur

House Selling and Buying Tracking System   Sept. 2018 - Oct. 2018

· A course group project using **Ruby on Rails** that realtor and house hunter can trade for real estate
· Implemented message function that everyone can communicate with each other
· Test the application thoroughly with Rspec

Spectrogram Recognition with Real-time Spectrum Analyzer   Jan. 2018 - June 2018

· A graduation project for spectrogram recognition using Deep Learning with **Python**
· Acquired spectrogram through real-time spectrum analyzer's API
· Recognized spectrogram for different frequency bands through convolutional neural network Inception-v3
· Designed a GUI containing all the functions