KE ZHAO

3220 Octavia St.⋄ Raleigh, NC 27606
(919) 741-1742 ⋄ kzhao2@ncsu.edu ⋄ https://zhao.ke

EDUCATION

North Carolina State University Aug. 2018 - Present
M.S. in Computer Engineering, Expected May 2020
Jilin University Sept. 2014 - June 2018
B.E. in Electrical Engineering

SKILLS

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

SELECTED PROJECTS

WolfTimeHelper Aug. 2019 - Present

· A Chrome Extension that helps hourly teaching assistant to clock in and out automatically
· Utilized HTML, CSS, and JavaScript to interact with the clock in&out website
· Helped teaching assistant to save time in redundant routine

Expertiza Jan. 2019 - May 2019

· 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