

Zhou (Susie) Shen

3335 South Figueroa Street #445, Los Angeles, CA, 90007
213-245-6018 zhoushen@usc.edu www.linkedin.com/in/zhou-shen

EDUCATION

University of Southern California, Viterbi School of Engineering

Aug 2019 – May 2021(expected)

M.S. in Electrical Engineering | GPA: 3.91 / 4

Southwest Jiaotong University, School of Information Science and Technology

Aug 2015 – Jun 2019

B.E. in Telecommunication Engineering | GPA: 88.03 | Ranking: 9 / 151

SKILLS

Language: C / C++, Java, Python, JavaScript, HTML, CSS, SQL

Framework: Node.js, React, Redux, Express, Django, Bootstrap, RESTful

Database: MongoDB, PostgreSQL, MySQL

Tools: Git, Docker, Keras, Heroku, Gunicorn, Nginx, Adobe XD, Wireframing

PUBLICATION

- **Zhou Shen**, Gang Liu, Zhiguo Ding, Ming Xiao, Zheng Ma, F. Richard Yu, “*Optimal Power Allocations for 5G Non-Orthogonal Multiple Access with Half / Full Duplex Relaying*”, IEEE ICC’2019.

INTERNSHIP

RezScore Inc. | Software Engineer Intern

May 2020 – Aug 2020

- Worked in full stack development team for developing and maintaining the Lead Generation management system
- Created wireframes using Adobe XD to design the dashboard and developed the front-end interface using React
- Implemented server-side back-end service using Django framework, along with PostgreSQL for RESTful API
- Automated email process that sends topline summary to users using SendGrid API, improved activations rate by 20%

Wayfair Inc. | Software Engineer Intern | Internship canceled due to COVID-19

May 2020 – Aug 2020

HealthOne Software Development Co., Ltd. | Software Engineer Intern

Jul 2017 – Aug 2017

- Recommended treatment based on diagnosis using K-Nearest Neighbor (KNN) and Decision Tree (DT) algorithms
- Preprocessed and constructed the dataset using MySQL, implemented algorithms above with Weka in Java
- Result: breast hyperplasia (DT: 89.5%, KNN: 89.4%), acute bronchitis (KNN: 53.0%), pregnancy (KNN: 37.6%)

PROJECTS

InternConn | Web Development | Founder

- Founded a platform to connect students impacted by COVID-19 with remote research and internship opportunities
- Developed interactive web pages based on MVC with Express.js framework
- Deployed server to Heroku(www.internconn.com) and maintained projects information using MongoDB Atlas
- Outreached to more than 20 companies, 300+ students submitted applications, 10k visits in one month

Candle Candle | Web Development

- Developed a Node.js web application with RESTful routes where users can browse and share a variety of candles
- Built dynamic webpages using EJS templates with Bootstrap and Flash messages
- Implemented authentication and authorization using Passport.js with MongoDB as database

Student Registration App | Android Development

- Created a student information registration application with the Android development environment
- Implemented the function: students could register with name, gender, student card number, class number and hobbies
- Designed user interface, finished the programming and tested the application successfully

Hyperspectral Image Classification System | Machine Learning

- Classified hyperspectral data with Deep Believe Network, Stacked Auto Encoder, Convolutional Neural Network
- Pre-processed the data and tested the three algorithms above using Indian Pines database in Python
- Achieved classification accuracy of 82%, 87% and 96% while applying DBN, SAE and CNN respectively
- Selected as a national project, ranked top 10% of 864 registered teams