

Congmin Qiu

congmin.qiu@rice.edu • 281-236-5657 • <https://github.com/JobQiu> • Houston, TX 77005

Education

Rice University	HOUSTON, TEXAS
Master of Computer Science	01/2018 – 12/2019
Yonsei University	SEOUL, SOUTH KOREA
Exchange Student in Electrical Engineering, GPA 3.92/4	08/2015 – 06/2016
North China Electric Power University	BEIJING, CHINA
Bachelor Degree in Electric and Electronic Engineering, GPA 87.37/100	06/2016
CSC Exchange Scholarship for Excellent Undergraduate Student	
National Mathematical Modeling Contest - The First Prize in Beijing	

Experience

Forging.Tech (Personal Knowledge Management System).	HOUSTON, TEXAS
Founder and Fullstack Engineer (KeyWord: Java, Swift, Machine Learning)	05/2018 – Present
<ul style="list-style-type: none">Designed a micro-service architecture and built the website using Spring Boot, Spring Cloud, MySQL, Redis, jQuery and Thymeleaf, and deployed them on Google Cloud.Programmed a Mac Application in Swift to extract questions, todos and notes from keyboard input.Built a CNN text classifier in TensorFlow to filter more than 95% invalid questions for users and embedded it into the web application.Programmed a Siamese Manhattan LSTM model with pre-trained Word2vec to predict if two questions are similar and merge similar questions.Analyzed the user pain point and designed the product's workflow to maximize user experience.	
2018 Kaggle Data Science Bowl	HOUSTON, TEXAS
KeyWord: Python, Computer Vision	01/2018 – 04/2018
<ul style="list-style-type: none">Built an U-Net and a Mask-RCNN model with ResNeXt as backbone to identity nuclei from images, ranked 206 among more than 3000 teams.	
Alitrip (The Travel Department of Alibaba)	HANGZHOU, CHINA
Java Engineer, Backend (KeyWord: Java, Machine Learning)	02/2017 – 12/2017
<ul style="list-style-type: none">Devised and realized a dynamic mock and debug tool using Redis, Janino, and Aspect-Oriented Programming, which facilitated daily tests and improved developing efficiency in the team.Built a distributed rate limit module to protect applications from breakdown caused by high concurrency using Redis.Integrated several Airplane Companies' API into Alitrip to sell more airplane tickets on the platform to increase revenue.Collaborated with colleagues to build a regression module using CART to predict airplane tickets' price and detect abnormal orders.	
Seeiner Tech.	HANGZHOU, CHINA
Java Engineer (KeyWord: Web)	08/2016 – 02/2017
<ul style="list-style-type: none">Designed and developed a Single Sign-On system for company using Spring Boot, LDAP, and Velocity. And connected it with Gitlab, Jira, Confluence, wifi, and VPN.Designed and realized a blog recommendation system using Collaborative Filtering.	
Yonsei Smart Grid Lab.	SEOUL, SOUTH KOREA
Research Assistant	12/2015 – 06/2016
<ul style="list-style-type: none">Designed and realized a strategy to control Hybrid Energy Storage System(HESS) to smooth out the fluctuation part of the electric power generated by wind farms using MATLAB/SIMULINK.	

Skills

Language: **Java**, **Python**, **SQL**, **Swift**, **Shell**, **MatLab**
Machine Learning: **TensorFlow**, **Keras**, **Numpy**, **Pandas**, **Scikit-Learn**, **Spark**
Database: **MySQL**, **Redis**
Web Develop: **Spring Boot**, **Spring Cloud**, **jQuery**, **HTML**, **Thymeleaf**, **JavaScript**
Other: **Git**, **Google Cloud**, **Maven**, **RabbitMQ**, **BeautifulSoup**, **L^AT_EX**, **SVN**
