

## **EDUCATION**

Columbia University, New York, NY

**EXPECTED DEC. 2017** 

- M.S. in Electrical Engineering GPA: 3.5/4
- Coursework: Modern Serverless Cloud Apps, Cloud Computing & Big Data, Applied Machine Learning, Deep Learning & Neural Networks, Computer Architecture

Nanjing University of Information Science & Technology, Nanjing, China

**JUNE 2016** 

• B.E. in Electronic Science & Technology • GPA: 3.92/4 • Outstanding Student Leader Award (Top 3%)

University of New South Wales, Sydney, Australia

AUG. 2014

• Exchange Program in Computer Engineering • GPA: 4.3/4

## **EXPERIENCE & LEADERSHIP**

### Columbia University, Computer Science Department

NEW YORK, NY

GRADUATE TEACHING ASSISTANT FOR COURSE MODERN \*-AS-A-SERVICE APPLICATION DEVELOPMENT

IAN. 2017 — PRESENT

- Work closely with Prof. Donald F. Ferguson on supervising and managing a class of 78 graduate students
- Receive high remarks for activities including office hours, tutorials to students and guidance to group projects
- Provide effective timely and appropriate feedback to students for maximized classroom delivery

Nanjing University of Information Science & Technology, Student Association for Science & Technology

y Nanjing, China June 2013 — Oct. 2014

CHAIR OF THE NETWORK INFORMATION DEPARTMENT

• Founded Computer Hospital, helped over 500 clients resolve computer problems with a satisfaction rate over 99%

Volunteered in more than 30 classes teaching computer languages, software tools and hardware skills

### **PROIECTS**

## Intelligent Restaurant Ordering System based on Modern Serverless Web Technology

NEW YORK, NY

PROJECT MANAGER, TEAM LEADER

• Adapt Agile methodology as the overall strategy from initial phase to ensure optimized development lifecycle

- Adapt Agne methodology as the overall strategy from initial phase to ensure optimized development metycle
   Utilize various DevOps technologies to analyze and monitor code quality and guarantee continuous delivery
- Train a front-end team to adapt cutting-edge technologies including Service Worker, Webpack, Karma and Protractor
- Design and implement a Microservices based serverless cloud system running on AWS Lambda Platform
- Create high performance, full-bodied and flexible database schemas on MySQL database hosted on AWS RDS Platform
- Deploy a set of HATEOAS-enabled RESTful APIs with the help of Swagger for efficient and robust data exchange

## **IoT based Smart Grocery Store Management System**

NEW YORK, N

TEAM LEADER

SEPT. 2016 — DEC. 2016

- Designed and implemented Neural Networks for predicting the most profitable stocking plan continuously
- Built an intelligent monitoring and auto-adjusting system for optimized storage for produce and goods
- Developed both business-side and client-side apps for web and major mobile platforms including Android and iOS
- Presented the project to store managers from different areas, received great interests and positive feedback

# Neural Network based Automatic Self-Calibrating System for Physical Sensors INDEPENDENT

Nanjing, China

INDEPENDENT

MAR. 2016 — JUNE 2016

Optimized Levenberg-Marquardt Algorithm with the full-scale error for calibrated results drop to below 0.006%

- Designed and built a novel portable and powerful self-calibrating platform for various physical sensors
- Implemented both Neural Network and its training and storing system for web and major mobile platforms

### Wireless Manipulator Controlling System based on Human Body Status Recognition PROJECT MANAGER, TEAM LEADER

NANJING, CHINA OCT. 2014 — JUN. 2015

- Developed body status recognizing system based on Neural Networks, resulted in an error rate down to 0.02%
- Adapted Cam-Shift Algorithm to process color and depth images for tracking all 10 fingers in real time
- Won 1<sup>st</sup> prize of 2014 Open-Lab Project Contest of NUIST (Top 0.8%)
- Published 2 national patents: 201521106094.7, 201521076162.X and 2 software copyrights: 2015R11L428138, 2015R11L428159

# Exam Information Validating System based on B/S Framework

May 2013 – Nov. 2013

• Implemented the front-end and back-end with sophisticated technologies, achieved a user satisfaction rate over 95%

- Optimized connection routing system, served almost 5 years steadily for over 20,000 entries per exam
- Inspected and improved database storing, fetching logic and accomplished a 350x boost on the overall performance
- Published 1 software copyright: 2014SR068177

# **PUBLICATIONS**

TEAM LEADER

- Ming Zhou, Qingquan Liu, and Yachen Zhu, "A Self-Calibrating Approach for Piezoresistive Pressure Sensor using Neural Network," Annual Conference of IEEE Industrial Electronics Society, (In submission).
- Wei Fang, Xuezhi Wen, Yu Zheng, and Ming Zhou, "A Survey of Big Data Security and Privacy Preserving," IETE Technical Review, 2016.
- Xiaoyu Li, Ming Zhou, Xiaotong Yuan, Qingshan Liu, and Qi Luo, "Parallel Estimation of Gaussian Model based on Nearby Choice from Downwards Coordinates," Journal of Nanjing University, 2016.

### SKILLS

PROGRAMMING LANGUAGES: C#, Java, Python, HTML, CSS, JavaScript, TypeScript, SQL, C, C++, F#, Lua, Assembly Language, LATEX Spark, Mahout, Hadoop, Hive, Hbase, Numpy, Scipy, Scikit-Learn, Theano, Accord.NET, AWS, Matlab LANGUAGES: Chinese (Native), English (Fluent)