

# Runbo(Chuck) Zhao

<https://rzhao03.mysite.syr.edu>  
runbozhao@hotmail.com | 315.883.9767

## EDUCATION

**SYRACUSE UNIVERSITY, USA**  
MSC., COMPUTER AND INFORMATION  
SCIENCE  
Expected Dec 2018 | Syracuse, NY  
Cum. GPA: 4.0/4.0

**XIDIAN UNIVERSITY, CHINA**  
BENG., MATHEMATICS AND APPLIED  
MATHEMATICS  
Grad. June 2016 | Xi'an, China

## LINKS

Github:// [Runbo94](#)  
LinkedIn:// [Runbo94](#)

## COURSEWORK

Internet Programming  
Object Oriented Programming C++  
Software Engineering  
Mathematics Basis for Computing  
Design and Analysis of Algorithm  
Computer Architecture  
Introduction to Database Management  
System  
Randomized Algorithms: Think and Code  
Structured Programming and Formal  
method

## SKILLS

### PROGRAMMING

Over 5000 lines:  
Java • JavaScript • TypeScript • Matlab  
Over 1000 lines:  
CSS • HTML • SQL •  $\LaTeX$  • C++  
C • Haskell

Familiar:

NoSQL

### FRAMEWORK

Angular • React • Express.js

Hapi.js

### DATABASE

MongoDB

Firestore Real-time database

### OTHER TOOLS

Git • npm • Heroku • PostMan

## PROJECT

**WWW.GITGROUP2018.COM** | A WEB BASED SOFTWARE DEVELOPMENT  
MANAGEMENT SYSTEM  
September 2018 – Now

- Seamless integration with GitHub keeps all of your GitHub Issue data in sync across both platforms in real time.
- Access the GitHub personal data via GitHub REST API v3. Authorize users through GitHub OAuth APP three steps.
- Drag and drop the card among different columns which represent different stage of the development process. Implement beautiful, natural movement of draggable and droppable items. Draw a variety of Agile charts using ReCharts.
- Use highly-productive Typescript to build Node server.
- **Tools:** HTML5, CSS3, Bulma, React, TypeScript, ts-node, MLab, Heroku

**WWW.JAJANG.CLOUD** | A CLOUD-BASED RESTAURANT MANAGEMENT  
PLATFORM SERVICE, DESIGNED FOR THE SMALL AND MEDIUM RESTAURANTS.  
October 2017 – April 2018

- Implement the table status monitor function by the Firebase realtime database. The RxJs makes it possible to do real-time, bidirectional and event-based communication between managers and customers.
- Achieve basic E-commerce functions, such as: authentication and authorization, product lists, shopping cart, etc.(seeRunbo94/JaJang-report). Also, to make JaJang more functional, some third-part modules is imported in JaJang such as: e-ngx-print, ngx-qrcode, neu-charts.
- Beautiful style of pages including some animation and fashion web component like card, carousel, modal. Also ng-bootstrap is also well designed for responsive pages, which is suitable for using JaJang on both PC and mobile platform.
- **Tools:** HTML5, CSS3, Bootstrap, TypeScript, Angular5, Firebase

**WWW.RENMOVIE123.COM** | AN ONLINE MOVIE RATING AND RENTING  
SERVICE  
May 2018 – September 2018

- Full-stack developed using React + Express + MongoDB model. deployed by Heroku.
- Build the frontend by React with some key components, including functional and well OOP Designed List component, implementing pagination, filtering, and sorting, Form component implementing submission and validation. etc.
- Using Node.js to design the restful API backend and do fully unit test and integration test by Jest.
- **Tools:** HTML5, CSS3, Bootstrap, JavaScript, React, NodeJs, ExpressJs, MongoDB

## RESEARCH

**PAGERANK BASED ANALYSIS OF NETWORK NODE INFLUENCE**  
July 2014 – September 2014

- Treat edge weight as a new input and got improved PageRank algorithm, extended the original PageRank iteration formula from one dimension to multi dimension.
- Take Erdos scholar network and Chinese social networks as examples and verified the reliability of the algorithm.