

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

Firebase Real-time database

OTHER TOOLS

Git • npm • Heroku • PostMan

PROJECT

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-qr-code, neu-charts.
- Beautiful style of pages including some animation and some 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

HEALTH CENTER DATABASE DESIGN | AN ONLINE MOVIE RATING AND RENTING SERVICE

October 2016 – February 2017

- Store the data for Patient, Visitor, Billing, Insurance, Employees, Patient Room, Patient Health Histories. Design a Descriptive ERD.
- Implement the DB by MicroSoft SQL Server. Create the tables, columns, primary keys, datatypes, nullabilities, and relationships. Implement views and stored procedures.
- **Tools:** Microsoft SQL Server, Microsoft Visio

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 Erdős scholar network and Chinese social networks as examples and verified the reliability of the algorithm