

# RUNBO(CHUCK) ZHAO

## Full Stack Web Developer



(315) 883 9767



rzhao03.mysite.syr.edu



rzhao03@syr.edu



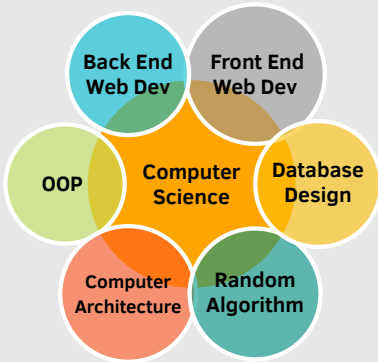
/in/runbo94



Runbo94

## Skills

### Overview



### Programming

0 LOC —————> 5000 LOC

JS(ES6) • HTML • CSS • NoSql • Java

SQL • ~~LaTeX~~ • C++ • C# • PHP

C • Python

## About Me

I'm a graduate student studying in Syracuse University and also a passionate programmer, specializing in full-stack development using **NODEJS** on the back-end.

Strong in object-oriented design and experienced with a wide range of front-end and back-end framework such as **Angular, React, Express** etc. Also, being an artist in nature, I have a good sense of design, colors, usability and can build beautiful and modern interfaces that people love.

## Education

AUGUST 2016 - PRESENT

**MSc., Computer And Information Science** (GPA: 4.0/4.0) Syracuse University, USA

SEPTEMBER 2012 - JUNE 2016

**BEng., Mathematics And Applied Mathematics** Xidian University, China

## Project

05/2018

- now

**www.renmovie123.com**

- An Online movie rating and renting service, full-stack developed using React + Express + MongoDB model. deployed by Heroku.
- Using React to develop the frontend 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 using Jest do fully unit test and integration test.
- **Tools:** HTML5, CSS3, Bootstrap, JavaScript, React, NodeJs, ExpressJs, MongoDB

10/2017

- 04/2018

**www.jajang.cloud**

Team Leader

- A cloud-based restaurant management platform service, designed for the small and medium restaurants.
- Highlight: Using the Firebase realtime database and characteristic of Angular implement the table status monitor function. Do not need to refresh the page everytime when the data is changed.
- TypeScript is chosen to used. Typescript overcomes a lot of defects of JavaScript and also it includes ES6 features which is good designed for OOP.
- Implement basic E-commerce functions, such as: Register, login, CRUD of items, shopping cart, etc. (see Runbo94/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 some fashion web component like card, carousel, modal and dropdown button. Also Bootstrap 4 and 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

10/2016

- 02/2017

**Health Center Database Design**

- 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

02/2015

**Managing Human Capital in Dynamic Network**

2015 Mathematical

Contest in Modeling(MCM)

Team Leader, supervisor: Dr.Feng Ye

- Built three models, namely classic feedback system model, Markov feedback system model, and simulation model to simulate the dynamic human managing process within the ICM company.
- Built a multilayer network based on AHP and got the influence of evaluation object from every node.

# Coursework —

- **Internet Programming**

A laboratory projects course. Programming models on web clients and servers.

Topics include: browser and server object models, tagged languages, emphasizing HTML and XML, ASP programming, and database connectivity.

**Instructor:**

Jim Fawcett

Edmund Yu

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- **Object Oriented Programming C++**

Survey of basic C constructs. Data abstraction, classes, derived classes, types, structures and template. Access control, information hiding, multiple inheritance. Formatting stream I/O, libraries, interfaces, modular system Organization. Substantial programming assignments.

**Instructor:**

Joe Waclawski

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- **Mathematics Basis for Computing**

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- **Design and Analysis of Algorithm**

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- **Computer Architecture**

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- **Introduction to Database Management System**

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- **Randomized Algorithms: Think and Code**

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- **Structured Programming and Formal method**

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03/2014

## **Cauchy Problem for Elliptic Equation with Variable-coefficients Using Regularization Method**

funded by the National College Student Innovative Entrepreneurial Training Program

- 06/2015

Team Leader, supervisor: Dr.Xiaoli Feng

- Introduced a new regularization – quasi-boundary-value method (QBV) to solve the Cauchy problem for an elliptic PDE.
- Used the Finite Difference Method to get a linear equation with large sparse matrix; introduced the preconditioned generalize minimum residual (GMRES) to solve the linear equations.
- Used MATLAB to operate for Cauchy problem for Elliptic Equation with two-dimensional and three dimensional variable-coefficients, respectively; displayed the result of numerical implementation to approve the feasibility of the method.

06/2014

## **Geographic Profiling and Space-Time Predicting of Serial Crimes**

- 09/2014

Team Leader, supervisor: Dr.Shuisheng Zhou

- Used modified Rossmo model to predict geographic profiling.
- Built time series model and used secondary exponential smoothing method to solve the model and forecast the time of next crime, which was verified in reality.