RUNBO(CHUCK) ZHAO

Full Stack Web Developer

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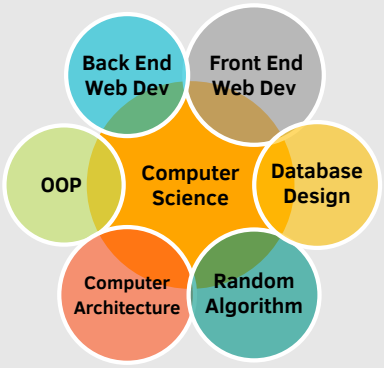
Runbo94

Skills

Overview



Programming

$0\ LOC \longrightarrow 5000\ LOC$

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.
- 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

10/2017 - 04/2018 **www.jajang.cloud**
A cloud-based restaurant management plateform service, designed for the small and medium restaurants.

- Implement the table status monitor function by the Firebase real-time database and characteristic of Angular. Do not need to refresh the page everytime when the data is changed.
- TypeScript is chosen. Typescript overcomes a lot of defects of JavaScript and also it includes ES6 features which is good designed for OOP.
- Achieve basic E-commence functions, such as: Resigster, 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 - 06/2015 **Cauchy Problem for Elliptic Equation with Variable-coefficients Using Regularization Method** funded by the National College Student Innovative Entrepreneurial Training Program
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 - 09/2014 **Geographic Profiling and Space-Time Predicting of Serial Crimes**
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.