

Jiayi Ren

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OBJECTIVE

Seeking for a full-time opportunity in Software Engineer. Up to three years OPT.

EDUCATION

University of Southern California, Los Angeles, CA January 2017 - December 2018
Master of Science, Computer Science

Central South University, Changsha, China September 2012 - June 2016
Bachelor of Science and Engineering, Software Engineering

SKILLS

Programming Languages:	Java, Javascript, ReactJS, NodeJS, C++, PHP, Python, SQL
Technology:	Maven, NPM, AWS RDS/EC2/S3, Bash, Spring boot
Database:	MongoDB, MySQL, MsSQL
Operating System:	Windows, OS X, Linux

WORK EXPERIENCE

Beckman Coulter Inc. - Software Engineer Internship (Brea, CA) June 2018 - August 2018

- Collaborated with other three interns building an Audit Viewable Information System. It saves half of users' time to look up from huge bunch of activity record. Utilized Team Foundation Server(TFS) and worked under **Scrum** methodology.
- Designed **Restful APIs** service; it could store and retrieve data using MongoDB from parent systems to exhibit on webpage. The database was set to store data only within half of the year.
- Produced login function with company's inner security authentication API and Keycloak Authentication API. Presented a function to filter data within a selected period of time and the time could be varied following user timezones.
- Performed comments module where users could write and see update in real time with help of **ReactJS**.
- Built Log file with **log4j2** to save debug information every two days in case of meeting blocks.
- Acquired project development process in real industry and get product worked complying with development box.

Maliwanjia Tech Co. - Full-stack Software Engineer (Shanghai, China) September 2016 - December 2016

- Worked in a startup company; it is related to online-education. Responsible for company Website and application test work. Acquired quick learning ability after induction training.
 - Constructed a responsive website with Ajax, Bootstrap and AngularJS.
 - Configured Nginx as reverse proxy server. Designed database schemas and conducted CRUD operations. Developed REST API to retrieve user profile. Wrote stored procedures.
 - Executed load test, performance test utilizing google developer tools for web application with 30,000 users, achieved stable application.
 - Developed testing tools based on open source tools, such as Jasmine and Karma .
 - Collaborated with Product Manager and UX Designer to complete product and communicated early risks with management team to ensure timely delivery.
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PROJECTS

Stock Search Application - Software Developer September 2017 - December 2017

- Built a single responsive web page. It could show real-time stock info, providing stockholders with convenience.
- Employed Alpha Vantage real time stock quote API and Seeking Alpha News RSS feed to built Restful APIs.
- Deployed application on **AWS**, created service using **Elastic Beanstalk** , established PHP environment.
- Using AngularJS to implement autocomplete input function, refresh function, and sort function in favorite list; stored and reloaded "favorite" information through browser localStorage;
- Implemented Facebook API. It could share stock graphs through API to Facebook.
- Realized an extra Android application. Applied Webview to show graph created by HighCharts. Applied Fragments to realize pages switching under one search result.
- Adapted Adapter to deal with data on Android end. Deployed Listener to listen for action change.

Computer Animation and Simulation - Developer January 2018 - April 2018

- Accomplished Jell-O Animation with the help of OpenGL.
- Performed a 2D particle system with sprites through WebGL, and source of particle follows mouse moving.
- Used Jacobian Algorithm to construct a simple 2D IK chain with three bones. The chain moves following mouse on Web Page.
- Realized 2D Marching Cubes Algorithm with WebGL; it shows blobby outlines.