

Renxu Hu

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San Diego, CA

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EDUCATION

University of California San Diego

[La Jolla, CA]

Bachelor of Science in Computer Engineering

Expected graduation date: June 2019

- **Major GPA: 3.92 / Overall GPA: 3.73**

SKILLS

Languages Java • JavaScript • C • C++ • C# • FreeMarker • HTML • CSS • PHP • Python • Swift • Perl
Frameworks DropWizard • Node.js • React • Redux • Express • Spring • Kotlin • React Native • Android Studio • SQL • Ajax • JQuery • Unity • Mocha and Chai • Mockito • JUnit • Hadoop • Cerebro • Apache Kafka • gRPC

WORK EXPERIENCE

MESL at UC San Diego & Synergy Lab at Carnegie Mellon University

[Palo Alto, CA]

Research Assistant

[Feb. 2019 - Present]

- Building Genie (genie.ucsd.edu) which is a Web interface for people in a building to control their room temperature
- Designing the development of the workflow for user interaction
- Developing REST APIs for the interaction between the machine learning algorithms and primary researchers
- Developing the front-end Web service with the above APIs

Groupon

[Palo Alto, CA]

Software Engineer Intern

[Jun. 2018 - Sep. 2018]

- Developed email, in-app, and push reminder notifications end-to-end which allowed high traffic (**a million users per day**) and improved user experience with an **expected \$4.75M annual revenue**
- Refactored and redesigned the payloads for all reminder notifications to a generic payload which saved **thousands of lines of code**
- Applied planning, scheduling, testing, and monitoring to **ensure software quality**
- **Languages&Frameworks used:** Java and DropWizard • Node.js and Express • FreeMarker • Mocha and Chai • Mockito • JUnit • Hadoop • Cerebro • Apache Kafka • Wavefront • Splunk

UC San Diego

[La Jolla, CA]

Tutor - CSE Department

[Jul. 2016 - Jun. 2018]

- Tutored object-oriented programming (OOP), data structure and algorithm, 3D computer graphics and real-time applications, and digital hardware abstraction and basic logic gates, theoretical underpinnings of digital design
- Reviewed and debugged students' code and explained related concepts

Beijing China IP LLP.

[Beijing, China]

Software Engineer Intern

[Apr. 2015 - Jul. 2015]

- Built a dynamic and interactive website which enabled high traffic and better user experience
- Utilized Progressive Web Apps to amplify user experience on the web
- Integrated a server that expedited search functionality by providing an organized database and faster search algorithm
- **Languages&Frameworks used:** JavaScript • React and Redux • CSS • PHP • MySQL • AJAX • JSON • NGINX

PROJECTS

Peterbook

[San Diego, CA]

Team Manager

[Mar. 2018 - Jun. 2018]

- Designed a mobile-friendly web application allows personal timeline, instant feed and messaging
- Adapted encryption on the database and operated continuous integration with Jenkins and a monitoring dashboard
- Directed and coordinated production, operations, quality assurance, testing, and maintenance
- **Languages&Frameworks used:** React • Node.js and Express • MongoDB • Google Cloud • GoogleKMS • ESDoc • multer • Google AdSense • Jenkins • Enzyme with Mocha • ESLint • Passport.js

Dope

[San Diego, CA]

Team Manager

[Aug. 2017 - Sep. 2017]

- Created a soundboard application that stores music on the personal customized playlist which allowed users to play music
- Implemented cache to improve the performance and used user authentication and authorization, input sanitization, and PHP hardening session to secure the data
- Integrated a server that expedited sort functionality for music and playlists by providing an organized database
- **Languages&Frameworks used:** JavaScript • HTML • CSS • Node.js • PHP • MySQL • AJAX • Soundcloud API