Renxu Hu

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Objective

To obtain an intern position for software engineer utilizing my relevant experience, technical expertise, and communication skills.

Experience

Tutor at University of California, San Diego, Computer Science Engineer Department 07/2016 ~ 04/2017

I am a tutor at the CSE department in UCSD. This job has helped me develop as a leader, such as improving the ability to communicate effectively with people, and teaching me how to guide people through problems that challenge them.

Technical Support at Beijing China IP LLP., Beijing, China 04/2014 ~ 07/2014

- Working on the technical support team for polishing and maintaining company website **(HTML, CSS, NodeJS, JavaScript, and PHP)**.
- Create and analyze the online database for financing by using **MySQL**.

Project

Soundboard Web Application UCSD 08/2017

A soundboard web program utilizes **HTML, CSS, AJAX, JavaScript** for the front end, **PHP, NodeJS** for the backend, and **MySQL** for the database. I apply **user authorization and authentication** and **track user input (prevent hacking)** to make the program safer, and I also apply **cache, minimization of JavaScript and HTML, CSS** to make the program faster.

Text to Video by applying Cognitive Services LA Hack 03/2017

Transfer text to video by applying **Azure cognitive services and Tensor Flow with Python**. This is dedicated to creating a new and more comfortable reading method for all users and can also be applied as a search engine.

OpenGL Project about Roller Coaster 09/2017

I am using **C++** as the main language and **OpenGL** as the library to create a roller coaster game consist of the 3D curve as the track, and I am also applying **scene graph** for better manipulation of the object and **culling** for better rendering. I also render my application to a **virtual reality headset**.

Sliding Window Protocol and Router 09/2017

I am using **C** as the main language to implement the sliding window protocol for Ethernet level sending (physical lawyer) and the router which is on the IP level for handling incoming Ethernet frames. I also use the **VM** (virtual machine) to simulate the network.

WOOF! UCSD 01/2017

An iOS app about Dog Wikipedia has mature frontend utilizing GUI from **Swift**, database applying **Firebase** and **MySQL**, and backend using **NodeJS**. This can also be a social media app for people who love dogs.

Education

University of California, San Diego, La Jolla, CA, Bachelor of Science in Computer Engineer

I am currently a third-year student but with a senior standing and 3.65 overall GPA.

Selected Coursework: GUI and Inherent Programming, Data Structure and Object-Oriented, Web, Database Applications, Distributed Management Systems, Machine Code and Assembly, Design and Analysis of Algorithms (Dynamic Programming and Greedy), Software Engineering, Computer Networks, Digital Systems, and Computer Graphics.

Skills

Coding: C/C++, Java, HTML+CSS, JavaScript, PHP, Perl, NodeJS, AJAX, C#, MySQL, SPARC, ARM, blue Spec, python, and MySQL.
Environment and Technologies: Apache, API/GUI, OpenGL, MySQL, Tensor Flow.