Raymond Ren

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EDUCATION

Stony Brook University   Stony Brook, NY
Major: B.S Information System   Dec 2023
Awards: SBU CS Junior Runner Up Certificate, Siena College CS Team Top 10, SUNY Albany Dean's List
Relevant Courses: Data Structure and Algorithms, Discrete Mathematics, Database Design, Linear Algebra, Probability and Statistic, Fundamental of Information Technology, Data Analysis, Computer Networking, System Administration, Computer Security, Cloud Computing.

ACADEMIC PROJECTS

Basic Interpreter: Created an Interpreter that lexically analyzes and parses a version of BASIC programming language and executes it using Java. Implemented an abstract syntax tree for the Interpreter using nodes parsed from the tokens created from lexical analysis.

System Administration: Use VMware to simulate a linux virtual machine, learn linux terminal. Created users, groups and organizations using phpmyAdmin and followed security policy to ensure security of the Admin system.

PCAP Analyzer: Created a program that analyzes a PCAP file to characterize theTCP flows in the trace. Identifying the source port, source IP address, destination port and destination IP address.

DNS Resolver: Created a program that translates the domain name into IP address. It resolves this query by first contacting the root server, top level domain then all the way down to the authoritative name server.

AWS Wordpress RDS: Configure a WordPress installation using Amazon RDS for MySQL.Using Amazon EC2 instance to install and host the WordPress application and Amazon RDS to store your WordPress data

RELEVANT/WORK EXPERIENCE

Teaching Assistant for Relational Database/ Database Design
- Hold office hours to answer questions that students may have about the course or subject material. Help guide students to succeed and coordinate study sessions. Administer and evaluate exams and homework assignments and provide feedback.

Student VIP Research
- Undergraduate student researcher at Stony Brook University for understanding of what it takes to make various large-scale decision-making, computation, optimization and machine learning algorithms for security against network and/or component failures and adversary attacks

Assistant Manager for Westmere Liquor Store
- Help manage and catalog the store supplies and shipment. Research new and trendy products to help boost sales and attract new customers. Stay up to date with upcoming product price changes and plan accordingly to maximize profit.

LEADERSHIP

Institute of Electrical and Electronics Engineers: Host workshop event to teach club member about new programming languages, computer science topics or other technology related fields

SKILLS

Programming Knowledge: Java | C | Python | SQL | Javascript | HTML | CSS | Ocaml |
Tools: VS Code | IntelliJ IDEA | Eclipse | MySql Workbench | Windows | MacOs | AWS | GIT | Microsoft Office | D3.js | num.py | Google Drive | VMWare
Fluent: English, Mandarin