Huang Yunrui

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Education Background

SUNY University at Albany   09/2019 - Present

- ➢ **Degree:** Bachelor of Science (expected in 05/2023);
- ➢ **Major**: Computer Science | Overall GPA: 3.64/4.0;
- ➢ Dean's list for the academic year between 2021-2022;
- ➢ **Key Courses:** *Database Systems, Computer Communication Networks, Operating Systems, Software Engineering, Computer Security, Principles aProgramming Languages, Assembly Computer Organization;*
- ➢ **Skills:** *Java, C++, HTML/CSS, JavaScript, MySQL, Linux, Microsoft Office.*

Internship Experience

Microsoft   Summer 2022

Intern for project: Network Backend Architecture

- ➢ Learned about Microsoft Network framework and used it through programming languages C# and ASP.Net;
- ➢ Understood the framework environment of each part of Microsoft Azure (e.g., NoSQL database, service bus, and web API for network interface, etc.);
- ➢ Built a service system through this framework, allowed users to access and operate the system through the network, and all the operation records of the users recorded in the database for the administrator to view;
- ➢ Learned how Microsoft implements distributed systems and microservices architecture through a network framework; got familiar with how to learn about and use new tools and features by reading documents and how to quickly find and read the documents I need.

Guangzhou Shunkang Lightning Protection Technology Co., LTD   Summer 2020

- ➢ Learned how to read engineering drawings and the numerical meaning of each data;
- ➢ Got familiar with the use of drawing design software and drawing design process;
- ➢ Read the design drawings and counted the values, compared the gap between the drawing values and the specification values, and marked the parts that exceed the specifications;
- ➢ Compared with the drawing values with the original data through Python, calculated the difference between the data and the drawing requirements, and mark the data that exceeded the standard.

Course Project

SUNY University at Albany Enroll Class Helper   09.2021-05.2022

- ➢ ***Objective:*** It aims to provide a highly visual web interface for users to choose courses, quickly find the course content, add it to the course selection list, and directly see the courses of the course selection list on the schedule.
- ➢ ***Responsibility:*** As the leader for the project, I divided the project into four parts: front end (for web pages), middleware (to provide data for web pages), DATABASE (to store course data) and back end (to update course data). Afterward, I took charge of the middleware and the back end, and also assisted the team members to develop the front end and database.

Network Transmission Protocol Code Implementation, Albany, US   2022.05

- ➢ ***Objective:*** It mainly aims to implement TCP and UDP transport protocols and emulates the RDT method (Reliable Data Transfer) of TCP at the transport layer and SW protocol for UDP (stop waiting).
- ➢ ***Responsibility:*** Independently completed the program design, from code writing to troubleshoot errors.

Push-down Automaton Code Implementation, Albany, US   2022.05

- ➢ ***Objective***：It mainly implements the given PDA state machine, analyzes whether the input statement conforms to the syntax through the state machine, and prints all states and stacks to the output end.
- ➢ ***Responsibility:*** Independently completed the program design, from code writing to troubleshoot errors.

CYK Algorithm Code Implementation, Albany, US   2022.05

- ➢ **Objective**：It analyzes the input document, converts it into a usable CFG (context-free grammar), and uses CFG to perform CYK algorithm analysis on the input string to print out the CYK diagram and whether it conforms to the grammar.
- ➢ ***Responsibility:*** Independently completed the program design, from code writing to troubleshoot errors.