

YIFEI WEN

400 W 113th St, New York, NY 10025 | <https://www.linkedin.com/in/yifeiwen/> | yw3769@columbia.edu | +1 332 217 5783

EDUCATION

Columbia University

New York, NY

M.S. in Computer Engineering

Expected Dec 2022

- Courses: Cloud computing, Big data and AI, Advanced computer network, User Interface, Formal verification.

Zhejiang Sci-Tech University

Hangzhou, CN

Electronic Information Science and Technology

Jun 2021

- Courses: Java, Data structure and Algorithms, Computer network, Pattern recognition, Intelligent information processing

EXPERIENCE

A Reliable Transmission System of TCP Based on UDP

Nov 2021 - Dec 2021

- Implement system sender and receiver using Python, and accomplish reliable TCP transmission in simulator of unreliable network (with packet loss, disorder, corrupt).
- Designed checksum, ACK confirmation, timeout retransmission, sliding window and other mechanisms based on UDP to realize reliable transmission.

Design and development of Vernacular Tourism Platform

Jan 2021 - May 2021

- Developed a full-stack web application based on Node.js and JavaScript to provide tourist attractions information, including local culture, surrounding environment, local customs, hotel introduction.
- Implemented Back-end server and RESTful APIs with Express framework and made queries to the MySQL.
- Utilized Ali Cloud service to launch platform including database, front-end and back-end parts online.
- Designed front-end User Interface and executed with Vue.js framework and Element UI.
- Built substantial high-performance web pages including functions of shopping module, travel route recommendation, activity upload and registration, cultural information viewing, etc.

Development of a Smart Dormitory System

Jan 2020 - Mar 2021

- Utilized Vue.js to construct management system allows more than 5k teachers and students to ask for leave, manage attendance, upload and inquire dormitory hygiene score.
- Tested back-end APIs (Java based) and data performance using Postman software to maximize development efficiency.
- Deployed a data visualization dashboard with ECharts (JavaScript based) to analyze data of new students registration rate.
- Researched and studied the Fingerprint module to obtain and compare characteristic values using C++.
- Employed Git to cooperate with team members and developed effective web pages including addition, deletion, modification, and checking attendance, dormitory information and leave approval.
- Led a presentation for project business planning in College Students Innovation Competition.

Software of Metro Runner Subway Game

Dec 2019 - May 2020

- Adopted Unity engine to realize game character dress selection and matching functions using C#.
- Deployed a back-stage management system using Bootstrap and JQuery allows administrators to allocate game data.
- Cooperated with back-end developer to manage data dynamically including data upload, acquisition, chart display.
- Analyzed innovative functions and proposed a detailed business plan for commercializing game; leveraged SWOT model for market analysis, covering segmentation, place, promotion, and sustainable development.

SKILLS

Programming Languages:

Java, JavaScript, Python, C/C++, MATLAB, HTML, CSS, NodeJS.

Frameworks and tools:

AWS, Vue.js, React, Element-UI, Bootstrap, JQuery, MySQL, Redis, Spark, Git.

AWARDS

- Zhejiang Government Scholarship, ZSTU (Top 5%)
- The 2nd Prize | Outstanding Students Scholarship, ZSTU (Top 10%)
- The 3rd Prize | ZSTU Mathematical Contest in Modeling