

Dannong Wang

Education

Rensselaer Polytechnic Institute

Bachelor of Science in Computer Science, GPA: 3.69

Troy, NY
Aug 2019 - Dec 2022

Experience

Undergraduate CS Mentor for Operating System, Rensselaer Polytechnic Institute

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Troy, NY
May 2022 - Aug 2022

- Assisted students with homework and held office hours on topics like Multi-Threaded Programming, Synchronization, Memory Management, and CPU Scheduling.
- Graded exams and provided feedback on student performance.

Machine Learning Intern, Huafeng-AccuWeather

Node.js

Python

MongoDB

Azure

Beijing, China
Dec 2020 – Feb 2021

- Developed a REST API that uses NLP to provide answers to weather-related questions.
- Created NLP models with Microsoft Azure Language Understanding and integrated them into the API using Python with techniques like Named-entity recognition.
- Utilized users' historical data to improve the relevance of the API's responses, including city name and date prediction for vague or incomplete queries.
- Developed multiple models and selected the most optimal one based on testing results and performance metrics such as precision and recall.

Projects

LEGUP, A tool to teach formal logic using puzzles

Java

Sept 2022 – Dec 2022

- Created validation functions for puzzles to check puzzle integrity after edits while leveraging object-oriented design principles.
- Created features to update a list of dependency used and their license with markdown, which will assist future developers in using the list as a reference and ensure that licenses are followed.
- Contributed to UI enhancements and bug fixes using Java Swing GUI toolkit.

University Marketplace - Course final project

Angular

Express.js

MongoDB

Sept 2021 – Dec 2021

- Implemented back-end with inventory management, order tracking, and payment processing features.
- Utilized Angular and Material UI to create a responsive, user-friendly single-page application that leverages the latest web technologies.
- Used Google Cloud Vision AI to automatically categorize products using product images, improving the application's search functionality.

University Event Scheduler - Course final project

React

Express.js

PostgreSQL

Jan 2020 – Apr 2020

- Implemented Mapbox API to create an interactive map displaying available campus venues and their details.
- Integrated SendGrid email API for secure one-time password login and automated event reminders.

Skills

Languages Java, Python, C/C++, JavaScript, HTML/CSS.

Frameworks & Libraries Angular, React, Node.js, JUnit, pandas, scikit-learn, NumPy, Matplotlib

Database SQL, MongoDB