

Yuanhang Zheng

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Education

Rose-Hulman Institute of Technology

Bachelor of Science in Computer Science | GPA: 3.60

Expected May 2023

Coursework: Computer Architecture, Object-Oriented Software Development, Data Structure and Algorithms, Database Systems, Web Programming, Operating Systems, Computer Networks

Skills

Languages: Python, C, C#, Java, JavaScript, HTML, CSS, MIPS Assembly

Framework/Libraries: React JS, React Native, Bootstrap, Redux, Node JS, Django

Databases: Relational model, Non-relational model, SQL, MongoDB, Firebase

Experiences

Amazon

Software Engineering Intern

June 2022 – August 2022

- Upgraded an internal tool to streamline on-call engineer's process of diagnosing the root cause of why offer(s) to consume a content on prime video is not available to streaming customers.
- Reduced time to resolve tickets by 75% by revamping the tool to provide important information which included data from various APIs and visual trace of offers in a centralized location.
- Tracked consumption options for prime video titles to determine the offers' statuses in the backend system throughout the pipeline and analyzed the trace to provide common issue diagnosis.

Rose-Hulman Ventures

Software Intern

October 2020 – May 2021

- Developed a React Native mobile application that allows motor engineers to configure and debug a motor controller by communicating to it via Bluetooth.
- Designed and implemented the application's Bluetooth communication infrastructure with the Bluetooth low energy library to stabilize the reading and writing of messages and ensure real-time updates.
- Reduced communication latency by 70% and robustly verified read and write operations.

TechPoint S.O.S. Challenge (link to repo)

Participant

June 2020 – July 2020

- Collaborated on a multi-disciplinary team to work on a solution in 5 weeks that tackled the challenges faced by the tourism industry due to the COVID-19 pandemic.
- Developed a web application using React JS, Spring Boot, and PostgreSQL that calculates the new maximum capacity for convention rooms according to CDC social distancing guidelines.
- Tracked the current capacity of these rooms with respect to their maximum capacity.

Projects

Surprise Discovery

- Developed a full-stack web application for students to buy and sell secondhand items with each other.
- Designed the backend SQL database and wrote CRUD store procedures and functions for storing and retrieving data.
- Used Node JS to create an API that connected the frontend web page to the database.

Question AI

- Created an AI that process text files, and answers user queries based on the information they provided.
- Built a web application using Django to provide an interactive experience for using and configuring the AI.
- Used NLTK library to process and tokenize text documents to rank sentences based on metrics such as term frequency and inverse document frequency to accurately answer queries.