Jian Qin (Ray)

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Personal Website: https://qinjian.xyz

Education

University of California San Diego   Sep 2019 – Jan 2023
- *Bachelor of Science*: Mathematics – Computer Science
- *Bachelor of Science*: Mechanical Engineering
- Provost Honors – CFA Candidate – GPA: 3.9+/4

Work Experience

Data Analyst Internship, *Qualcomm Institute*   Dec 2020 – Jun 2021
- Acquired and cleaned locations and text review data from the Yelp API for scalability.
- Integrated datasets to observe more powerful results across different sources.
- Conducted sentiment analysis with NLP libraries to understand customer reviews.
- Produced insightful correlations and descriptive statistics on interested businesses.
- Developed data visualizations such as accuracy table, heatmaps, and correlation matrix.

Instructional Assistant, *UC San Diego*   Dec 2020 – Dec 2021
- Tutored students on Computer Aided Design software (CAD) and academic concepts.
- Prepared course material and evaluated student assignments and exams.
- Fostered inclusive learning environments for students with diverse backgrounds.

Projects Experience   **Live Demos & More Info ➔ https://qinjian.xyz**

Cloud Drive XYZ
- Built full stack cloud-based file system with React and Firebase.
- Implemented authentication, authorization, and security rules for data access.
- Allows logged-in users to upload and delete files and folders in a tree structure.

Restaurant Finder
- Developed full stack review system with PostgreSQL, Express, React, and Node.js.
- Configured database query, server-side routes, and client-side API calls.
- Engineered error handling and form validation for all input fields.

Mars Landing Simulation
- Simulated six different trajectories of capsules landing on Mars in MATLAB.
- Integrated parameters such as mass, gravity, air density, and data visualizations.

Sudoku Solver
- Implemented backtracking algorithm to instantly solve any valid sudoku with React.
- Performed form validations to reject invalid characters and invalid sudokus.

Thermostatic Mug
- Developed a smart temperature control system with Arduino, circuits, and python.
- Manufactured working prototype with 3D Printing and Computer Aided Design.

Skills

- Java, Python, C++, HTML, CSS, JavaScript, React, Firebase, PostgreSQL, AWS, MongoDB, Express, TensorFlow, Docker, SQL, MATLAB.