

# Jian Qin (Ray)

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LinkedIn: <https://www.linkedin.com/in/qinjianxyz>

GitHub: <https://github.com/qinjianxyz>

Website → <https://qinjian.xyz>

## Education

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### 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

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### Data Analyst Internship, Qualcomm Institute

Dec 2020 – Jun 2021

- Performed data acquisition with Yelp API for locations, ratings, and text reviews data.
- Conducted sentiment analysis with NLP libraries to understand customer reviews.
- Concluded insightful correlations and descriptive statistics on businesses.

### Instructional Assistant, UC San Diego

Dec 2020 – Jun 2021

- Tutored students, prepared course material, and evaluated student assessments.
- Assisted Engineering Graphics & Design, Linear Circuits, and Solid Mechanics.
- Fostered positive and inclusive learning environments for all students.

## Projects Experience

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Live Demo & More Info at → <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 XYZ

- 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.

### Library XYZ

- Built MERN stack application with Model View Controller (MVC) pattern.
- Developed functionality of create, delete, and query for books and authors.

**Sudoku Solver** - Implemented backtracking algorithm and form validations.

**Mars Landing Simulation** - Simulated six different trajectories of capsules landing on Mars.

**Light Saber Picking Robot** - Designed and manufactured a competition robot.

**Thermostatic Mug** – Built a temperature control system with Arduino sensors.

## Skills

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