

Jian Qin (Ray)

Phone & Email: +1(415) 604-6032 – qinjianxyz@gmail.com

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

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

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
- Double Major – GPA: 3.9+/4

Chartered Financial Analyst Institute

Jul 2021 – Present

- CFA Level I Candidate

Work Experience

Data Analyst Internship, Qualcomm Institute

Dec 2020 – Jun 2021

- **Scaled up** data analysis with Yelp API for location, ratings, and text review data.
- Conducted **sentiment analysis** with NLP libraries to understand customer reviews.
- **Concluded** insightful correlations and descriptive statistics on businesses.

San Diego, CA

[GitHub Repo](#)

Instructional Assistant, UC San Diego

Dec 2020 – Jun 2021

- **Tutored** students on Solid Mechanics & Linear Circuits under MAE department.
- **Prepared** course and exam material. **Conducted** oral exams with students.
- **Improved** students' performance by evaluating assignments and designs.

San Diego, CA

Featured Projects

More information 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.

[Live Demo](#)

[GitHub Repo](#)

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.

[Live Demo](#)

[GitHub Repo](#)

Library XYZ

- Built full stack library with MongoDB, React, Fetch API, EJS, and Node.js.
- Organized the application structure with **Model View Controller** (MVC) pattern.
- Developed functionality of create, delete, and query for books and authors.

[Live Demo](#)

[GitHub Repo](#)

Sudoku Solver

- Implemented **backtracking** algorithm to instantly solve any valid sudoku.
- Rejects inputs including invalid characters, no solution, or multiple solutions.
- Utilizes React **functional components** and props passing for state management.

[Live Demo](#)

[GitHub Repo](#)

Skills

- **Programming**: React.js, Firebase, PostgreSQL, AWS, MongoDB, Express.js, TensorFlow, Docker.
- **Engineering**: SolidWorks, AutoCAD, Inventor, Fusion360, FEA, CFD, GD&T, Arduino, Motion Planning, 3D Printing.
- **Mathematics**: Probability, Statistics, Graph Theory, Enumerative Combinatorics, Numerical Methods, Abstract Algebra.
- **Languages**: English, Mandarin, Spanish, HTML5, CSS3, JavaScript, SQL, MATLAB, TypeScript, Python, Java, C++.