

RAY QIN

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EDUCATION

University of California, San Diego

Sep 2019 – Mar 2023

- **B.S. Computer Science**, Mathematics & Mechanical Engineering, **GPA: 3.9+/4.0**, Provost Honors

WORK EXPERIENCE

Eightfold

Jun 2022 - Present

Software Engineer, intern

Mountain View, CA

- **Core Infrastructure:** Enabling 40+ engineers to be more effective by building new and improving existing internal tools. Championing the core infrastructure team to provide efficient and reliable data warehouse services. Led a project that detects and reduces data inconsistencies between the source and the data lake.
- **Web Development:** Contributing to production flask server in Python using tools like pdb, pytest, and pylint. Actuating the team vision with AWS services and Apache projects related to distributed systems.
- **Engineering Reliability:** Improving reliability by developing unit tests for every feature developed for the continuous integration pipeline. Delivering consistent results in accordance with the team and company schedule involving diverse teams.

MEDsmart

Sep 2021 – Mar 2022

Software Engineer, intern

San Diego, CA

- **System Automation:** Cut operation costs by 11% in clinics by tracking and automating the medication refill process. Slashed inventory waste by 4% by automating database queries and synchronization with AWS.
- **Inventory Forecast:** Reduced shortage response time by 7% by generating inventory reports and visualizations. Estimated future usage of medication by Implementing LSTM machine learning algorithm in Python.

Qualcomm Institute

Dec 2020 – Jun 2021

Software Engineer, intern

San Diego, CA

- **Data Integration:** Gained insights by building composite business profiles through integrating data sets from multiple sources. Spearheaded business data collection and processing from Yelp API and open city data sets.
- **Machine Learning:** Enhanced business productivity by building analytics dashboard and data visualizations. Analyzed business success models and offered strategic planning with Machine Learning libraries.

PROJECTS

SQLightning

Database Management System

- **Software Design:** Developed a relational database command line terminal with core SQL functionalities in C++. Led software architecture design for database, data flow, application layers, and component interaction. Built flexible and expressive interfaces and abstractions to enhance reusability and adaptability.
- **Reliability:** Improved database robustness through input tokenizer, typed-stream encoder, and error reporting system. Increased team reliability by utilizing CI/CD pipeline, unit tests, integration tests, and sprint board.
- **Performance:** Optimized performance by 84% with the primary key index system and the LRU cache system.

Data Storm

Full Stack Development

- **Web Dev:** Built a Cloud Drive and an Analytics Dashboard with React, Firebase, HTML, CSS, and JavaScript.
- **Restful API:** Designed a RESTful API using Apache, Node.js, Express.js, and Passport.js to handle client-side API calls. Implemented secured CRUD routes, authentication, authorization, and custom roles for data access.

Driverless

Deep Learning, Robotics

- Built and programmed a 1/8 scale autonomous car that performs on tracks with over a 90% success rate.

SKILLS

- **Tech Stack:** Python, Java, C++, HTML, CSS, JavaScript, SQL, Git, Docker, Tensorflow, Bootstrap, Linux, Bash, Firebase, MongoDB, Amazon Web Services, Apache Server, Spark, Solr, Presto, React.js, Node.js, Express.js.
- **Core Skills:** Software Architecture, System Design, Agile Development, Organizational Leadership, Data Analytics, Object Oriented Programming, Distributed Systems, Cloud Computing, Machine Learning, API Development.