

Ron Yifeng Wang

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Education

Stanford University

M.S. Computer Science

Incoming

Sep 2024 - Jun 2026

University of California, Berkeley

B.A. Computer Science, Data Science, Economics

GPA: 3.93/4.00

August 2020 - May 2024

- **Technical Coursework:** Algorithms, Data Structures, Machine Structures, Database Systems, Computer Security, Software Engineering, Artificial Intelligence, Machine Learning, Computer Vision & Computational Photography, Natural Language Processing, Optimization Models for Engineering, Data Science, Probability
- **Awards:** EECS Honors Program, Dean's List

Experience

Sky Computing Lab, Berkeley EECS

Undergraduate Researcher, PI: Frank Luan, Ion Stoica

Nov 2023 - Present

Berkeley, CA

- Wrote end-to-end ML experiments to evaluate the performance of common distributed computing and streaming frameworks, including Ray Data, tf.data, PyTorch Dataloader, Apache Spark, and Apache Flink, on AWS instances.
- Contributed to the open-source Ray Data project, improving image loading pipeline throughput by 22%.

Operations and Behavioral Analytics Lab, Haas School of Business

Research Assistant, PI: Park Sinchaisri

Feb 2023 - Dec 2023

Berkeley, CA

- Collaborated with a team of 4 in researching reinforcement-learning and deep-learning approaches for efficient and collaborative team formation.
- Developed React web apps for experiments, custom-integrated into Qualtrics and MTurk, and wrote documentation.

UC Berkeley College of Computing, Data Science, and Society

Teaching Assistant (6.62/7.00 rating), Tutor

Jun 2021 - Dec 2023

Berkeley, CA

- TA for Data 101, Data Engineering (Fall 2023); TA for Data C8, Intro DS (Summer 2022, Fall 2022).
- Taught weekly sections discussing fundamental concepts in data engineering, DBMS, and the whole data science life cycle; developed and refactored course infrastructure; managed grading of 280+ students.

UC Berkeley Economics Department

Research Assistant

Jun 2023 - Aug 2023

Berkeley, CA

- Trained, fine-tuned, and deployed machine-learning classifiers, including Naive Bayes and a tailored transformer-based model (BERT), for an NLP task that classified patent abstracts from the Google Patents Public Dataset.

Projects

statpass - Intramural sports iOS app

Typescript, React Native, Tamagui, Cloud Firestore, Expo

Jun 2023 - Oct 2023

- As co-founder and software engineer, coordinated 6 team members in agile development cycles, successfully completing multiple user story-driven features and launching the MVP on the App Store (<https://statpass.app/>), reaching 90+ users in three weeks.
- Prototyped UI/UX designs with Figma and built components with Typescript, React Native, and Tamagui; designed database schemas and implemented internal CRUD APIs.

RookieDB - Database Management System

Java, JUnit

Jan 2023 - May 2023

- Improved the functionality and performance of a relational DBMS, implementing B+ tree indices, efficient join algorithms, query optimization, multi-granularity locking, and database recovery.

Skills

PL Python, Java, C, Go, JavaScript, TypeScript, Ruby on Rails

Web Dev HTML, CSS (Tailwind, Tamagui), React [js, Native]

Tools Git/GitHub, RDBMS (PostgreSQL), NoSQL (MongoDB), AWS [EC2, S3, DynamoDB, Lambda]

Frameworks Ray [Core, Data], Apache Flink, PyTorch, TensorFlow, Sklearn