

MINGXUAN FAN

LA JOLLA, CA | (858) 336-2107 | MFAN@UCSD.EDU | [\[GITHUB\]](#) | [\[GITLAB\]](#) | [\[LINKEDIN\]](#)

EDUCATION

University of California, San Diego

La Jolla, CA

B.S. In Math - Computer Science, Junior, GPA 3.85

09/2018 - current

SKILLS

Languages: Python, C++, Java, HTML/CSS, JavaScript, TypeScript, SQL, PHP

Framework & Tools: Spring MVC, React, Node.js, Express, Laravel, Vue, Git

Database & Platforms: MySQL, SQLite, MongoDB, Redis, Cassandra, Firebase, AWS

Concepts: Mobile Dev., Web Dev., OO Design, Data Structures, Deep Learning, CNN, RNN & LSTM

EXPERIENCE

Microsoft Research Asia [\[MSRA\]](#)

Beijing, China

Research Intern <SA Group> | Deep Learning / Web Development

07/2020- current

- Developed a chart-authoring web tool using **Typescript, React and Redux** framework.
- Implemented interfaces, chart animations and data visualizations using **Ant Design and D3.js**.
- Improved application performance by using **React hooks, HOC** and image lazy loading.

Qualcomm Institute -- UCSD Calit2 [\[QI\]](#)

La Jolla, CA

Full Stack Web developer | HTML, JS, CSS / React, Node.js, Express

02/2020 - 06/2020

- Reconstructed the existing official website to a React application using **React and Express**.
- Improved website performance by reducing coupling and re-assembling views and JS logic.

PROJECTS

UnSea: An anonymous forum designed for college students

09/2019 - 06/2020

- Developed the initial backend structure using **Spring MVC, Hibernate** and **MySQL**.
- Implemented notification feature using **Websocket, STOMP** and **APNs**.
- Implemented sensitive content filtering using the **DFA algorithm** and **AWS Rekognition services**.

UnSea (Remake) [In Progress]

10/2020 - current

- Reconstructed server code following **Spring AOP** and service-oriented pattern for better performance.
- Adopted **Lombok** project annotations to enhance code simplicity and elegance.
- Implemented simple instant message(IM) services using **RabbitMq** and **Redis** database.
- Improved keyword search speed using **Elastic Search**.

Plan-B: A mobile tutoring resource platform

10/2020 - 12/2020

- Implemented notification feature using **Okhttp3, Node.js** and **Firebase Cloud Messaging services**.

FlyerFighter: An online event-posting platform created for student clubs

02/2019 - 06/2019

- Implemented basic app features (authentication, app logics, etc.) using **React** and **Express**.

ACTIVITIES

Chinese Computer Community [\[UCSD Triple C\]](#)

La Jolla, CA

Technical Chair & Project Technical Lead | General

06/2019 - 03/2020

- Led over 50 developers for side-projects development; Provided guidance for project groups and solved specific technical problems; Maintained deployed applications and services.