

TIANXIANG REN

Software Engineer

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Java, Python, HTML / CSS

Frameworks & Tools: Flask, Express.js, React, Redux, Node.js, Docker, Git

Databases: SQLite, Sequelize, SQLAlchemy, Postgres

WORK EXPERIENCE

Software Development Intern

Mar - Jun 2023

TRACT - Due Diligence and Risk Analysis Company

San Francisco, CA

- Lead a team in frontend development with **TypeScript** and **React**, improving homepage's UI/UX of TRACT
- Contribute to the user Authentication and Authorization APIs development and integration with **NestJS** in the backend, working closely with the team to optimize performance and functionality
- Collaborate with cross-functional teams to design and implement periodic design updates, ensuring a visually appealing and intuitive user interface
- Publish website updates with **AWS EC2** and **Nginx**, ensuring seamless deployment and accessibility for end-users

Software Engineer Intern

Jun 2019 - Aug 2019

Sichuan TIANYUAN Machinery Engineering Co., Ltd. - Machinery Engineering Company

Sichuan, CHINA

- Developed a web application using **Python** and **Flask** that managed over 200+ products per week.
- Contributed 3,000+ lines of code for the frontend UI using HTML/CSS/Javascript/Bootstrap
- Implemented management CRUD functions using Python scripts and configured MySQL database connections

FULL-STACK PROJECTS

MovieProx | Javascript, React, Node.js, MongoDB Atlas, Axios | Movie website inspired by Netflix

[live](#) | [github](#)

- A responsive Netflix-like website built with MERN (**MongoDB**, **Express**, **React**, **Node.js**) stack and the Themoviedb API. Users can sign up, search movies, TVs and people, add movies to favorite list, write reviews.
- Developed server APIs with Express and make API calls to the Themoviedb API by deploying Axios clients
- Designed responsive and modern web pages with React, Material UI, SwiperJS, Formik and Yup
- Provided user authentication and protection with JWT and Express Validator
- Deployed the application on Vercel and host the database on MongoDB Atlas for cloud storage

Huskyhub | Python, Django, HTML, CSS, Javascript | Student community for Northeastern University

[github](#)

- Utilized **Python** and **Django** framework to develop the backend of the student community website, including user management, authentication, database models, views, and routing.
- Implemented and customized the website's user interface using HTML, CSS, and JavaScript, ensuring a seamless user experience and appealing design.
- Employed Django's built-in **ORM** to handle database management, designed and implemented models for student information, posts, comments, etc., and managed data storage, retrieval, and updates.

Airbnb | Express, Node.js, React, Redux, Sequelize | Trip booking website inspired by Airbnb

- Leveraged powerful features with **Node.js** and **Express.js** for creating server-side **JavaScript** application with **APIs** and efficient request handling.
- Built booking system with **React-date** and **Moment.js** libraries to parse and manage date input from users, resulting in a more user-friendly interface and improved data accuracy.
- Incorporated the **Google Maps API** into map view feature, providing users with accurate locations and granular control over zoom levels for visibility.

EDUCATION

Northeastern University

Master of Science in Information Systems, GPA: 3.6

Boston, MA

Expected Dec 2023

Hefei University of Technology

Bachelor of Engineering in Mechanical Engineering

Anhui, China

Sep 2017 - Jun 2021

Relevant Courses:

Concepts of Object-Oriented Design, Web Design and User Experience Engineering, Program Structure and Algorithms