

# TIANXIANG REN

## Software Engineer

San Francisco Bay Area, CA | (781) 627-6128 | rentxiang@gmail.com

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

## EDUCATION

### Northeastern University

Master of Science in Information Systems, GPA: 3.6

*Relevant Courses: Concepts of Object-Oriented Design, Web Design and User Experience Engineering, Program Structure and Algorithms, Advanced Data Science and Architecture, Smart Contract Automation*

Boston, MA

Expected Dec 2023

### Hefei University of Technology

Bachelor of Engineering in Mechanical Engineering

Hefei, China

Sep 2017 - Jun 2021

## WORK EXPERIENCE

### Software Development Intern

TRACT - Due Diligence and Risk Analysis Company

Mar - Jun 2023

San Francisco, CA

- Developed the website of TRACT as a frontend developer with **TypeScript**, **React** and **Material UI**, improved website load times by 25% through optimizing image loading and implementing lazy loading techniques
- Leveraged React components, managed state using **Redux**, and utilized **Axios** for API calls. Employed CSS modules for styling to ensure modularity and avoid conflicts.
- Contributed 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
- Collaborated with cross-functional teams to design and implement periodic design updates, ensuring a visually appealing and intuitive user interface
- Conducted unit and integration testing using **Jest** and React Testing Library to ensure accurate functionality
- Published website updates using AWS EC2 and Nginx, ensuring seamless deployment and accessibility

### Graduate Teaching Assistant

Northeastern University

Aug 2023

San Jose, CA

Teaching Assistant and tutor for the course INFO6205-Program Structure and Algorithms at Northeastern University

### Software Engineer Intern

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

Jun 2019 - Aug 2019

Guangyuan, Sichuan

- Developed an internal management application aimed at streamlining company processes and data management using **Python** and **Flask**
- Designed a user registration, login, and permission management system, implementing password hashing using Flask-Login and **Werkzeug**, improved data security and privacy protection
- Implemented robust CRUD operations and established seamless connections to a **MySQL** database, resulting in efficient handling of data management and 30% reduction in processing time

## FULL-STACK PROJECTS

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

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

- Built 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

**Trello** | *Java, Node.js, React, Redux, Spring Boot, MySQL* | Trello alike Project Management Tool Application

- Built a Trello alike application that utilizes Kanban boards (which represent projects), cards (which represent tasks), and lists (which tracks the statuses of different projects) to move tasks or organize the resource materials in real-time.
- Developed backend REST APIs with **Spring Boot 2.0** for CURD operations on **MySQL**, secured by Spring Security and JWT. Built a web frontend with **React** and **Bootstrap** and used **Redux** to manage the state of the application. Deployed the application into Heroku's free tier.

## TECHNICAL SKILLS

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

*Frameworks & Tools: React, Node.js, SpringBoot, Flask, Django, Docker, Git*

*Databases: SQLite, Sequelize, SQLAlchemy, Postgres, MySQL, MongoDB*