

# Yuchen (Raina) Pan

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## TECHNICAL SKILLS

**Front-End** | JavaScript, TypeScript, React.js, Next.js, HTML5, CSS3, MUI, Bootstrap

**Back-End** | Node.js, Express, PostgreSQL, MongoDB, MySQL, RESTful API, Firebase

**Testing/Deployment** | Jest, React Testing Library, Mocha, Chai, AWS: EC2, Docker, NGINX

**Developer Tools** | Git, npm, Webpack, Babel, TDD

## SOFTWARE APPLICATION DEVELOPMENT EXPERIENCE

**BiteShare** | Full-stack Developer | [Repo Link](#) | React, NodeJS, Express, MongoDB, MUI, GIT 2023

*Developed a mobile-first web application splitting bill app with an agile team of 6 engineers*

- Designed **UI wireframe** to expedite feature development, providing a clear reference for the team
- Implemented secure user authentication using React Router, ensuring protected access and privacy
- Developed a user-friendly friend management system with search capabilities, allowing users to edit their friends list during meal creation and on a dedicated friends page
- Achieved 70%+ test coverage by utilizing **Jest** and **React Testing Library** to develop **unit tests**

**Atelier** | Backend Developer | [Repo Link](#) | NodeJS, Express, PostgreSQL, NGINX, Docker, GIT 2023

*Rebuilt the back-end server with microservices architectures and scaling*

- Deployed with **Docker** and horizontally scaled API increasing RPS from 500 to 8000 while latency < 20ms and 0% error rate behind **NGINX** load balancer and caching
- **ETL** of 35+ million records of data to PostgreSQL and wrote complex queries with indexing and correlated queries that reduced data retrieval latency from 7000ms to < 1ms
- Designed and built **RESTful** API for Q&A service that responded to requests in < 10ms when handling 1000 RPS for 30s in local **K6** stress tests

**Atelier** | Frontend Developer | [Repo Link](#) | React, HTML, CSS, NodeJS, Express, GIT 2022

*Revamped outdated webpage, incorporating new design and requested features*

- Developed **React** front-end service for Rating & Reviews module, adhering to UI wireframes in the business requirements using **CSS**
- Implemented client-side sorting and filtering algorithms and searching algorithms of all reviews
- Enhanced Google Lighthouse Page Load Speed by 28% using text compression middleware

## PROFESSIONAL EXPERIENCE

**Galvanize Inc** | **Software Engineering Immersive Resident** | Chicago, IL Mar 2023 - Jul 2023

- Mentored 60+ students in **Javascript** toolkits, providing code reviews, debugging guidance, and addressing complex technical issues
- Led office hours on tech fundamentals, supporting in developing their technical skills
- Taught software engineering algorithms to the students during 1:1 sessions

**Social Media Developer (Self-Employed)** | Chicago, IL Feb 2019 - Present

- Filmed and edited life-style vlogs / photos by Adobe **Photoshop** and **Premiere** with 75K followers
- Managed sponsorship relationships with 35+ partnerships annually

**China CITIC Bank** | **Senior Mortgage Loan Specialist** | China Jun 2011 - Jul 2018

- Processed 100+ loan applications monthly for new client profiles by reviewing loan applications, analyzing credit scores and determining eligibility and issued loans for over USD 20 million
- Provided wealth management portfolio for 40+ VIP customers with total management asset of > 10 million USD

## EDUCATION

**Hack Reactor** | Advanced Software Engineering Immersive Certificate 2023

**Hunan University** | BA in Radio & TV Broadcasting | Law minor 2011