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*Revamped outdated webpage, incorporating new design and requested features*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

**Freelance Full-stack Developer (Self-Employed)**  | Chicago, IL                    Aug 2023 - Present
- Designed and developed websites for small businesses by using TypeScript, Next.js, React, and tailwindCSS toolkit
- Fostered client communication to deliver tailored solutions and understand project requirements

**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 1:1 office hours on tech fundamentals, supporting in developing their technical skills

**Content Creator (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+ monthly loan applications, demonstrating communication and teamwork skills
- Delivered personalized wealth management to 40+ VIP customers, assets > USD 10 millions

## EDUCATION

**Hack Reactor** | Advanced Software Engineering Immersive Certificate                    2023
**Hunan University** | BA in Radio & TV  Broadcasting | Law minor                    2011