Xinzhe Chai

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EDUCATION

Brown University, *Sc.B. Computer Science,* 4.0/4.0 Major GPA   Providence, RI | **Expected Graduation May 2023**
Relevant Coursework: Software Engineering, Web Applications, Computer Systems, Deep Learning, Data Structures and Algorithms, Hypertext Systems, Statistical Inference, Programming Languages (current)

PROFESSIONAL EXPERIENCE

Zumper
Software Engineering Intern, Frontend [*zumper.com*]   San Francisco, CA (remote) | July – September 2021
- Developed customer-facing Multifamily Analytics Dashboard with **React** and **Redux**, contributed 10k+ lines of production code. Extensively tested all components with **Jest** and **Cypress** test suite. Product released in July 2021.
- Built a suite of 15+ reusable web components for Zumper's UI library using **TypeScript** and **Emotion**, providing standardized components across different frontend services. Documented usage and hosted demo with **Storybook**.
- Presented an implementation of *Progressive Image Loading with Server-side Rendering* to a team of 50+ engineers.

Full Stack at Brown
Product Manager & Lead Engineer   Providence, RI | January 2020 - Present
- Managed 3 web application teams, guided product design discussion, and set product priorities to ensure timely delivery. Communicated with clients, provided mentorship and technical support with **React**, **Express**, **MongoDB** and **SQL**.
- Led the design and implementation for *Brown Initiative for Policy* website with **Bootstrap** and **JavaScript** [*brownpolicy.org*].
- Responsible for livestream experience and website maintenance for Hack@Home, a virtual hackathon with 1k+ hackers.

Computer Science Department, Brown University
Undergraduate Teaching Assistant   Providence, RI | May 2021 - Present
- As UTA for *Hypertext Systems* (CS1951V), redesigned course assignments with **MERN** stack and developed exploratory labs for **React**, **MongoDB**, **Express**. Maintained course website and developed autograder with **Jest** testing framework.
- Held weekly hours to help students debug and provide conceptual explanations of web application architecture.
- Previous TA experience: *Introduction to Data Structure and Algorithms* (CS16).

Keva Health
Web Development Intern [*kevahealth.com*]   Lexington, MA | July - August 2020
- Rebuilt company website from scratch with **WordPress**, **HTML** and **CSS**; website generates 1500+ monthly views.
- Coordinated content production for 6 webpages, completed site migration and provided timely support during downtime.
- Drafted company's social media strategies (visual design, lead generation) and drove 40% growth in LinkedIn followers.

TECHNICAL PROJECTS

MidPoint [*midpoint.fun*]   March – April 2021
- A fun polling site that allows user to post interesting questions to community and gauge public opinions. Currently hosting 300+ questions and has 50+ registered users. The web app features a masonry layout and support infinite scrolling.
- Led the frontend, database design and deployment efforts of the development. Built with **React**, **MongoDB** and **Maven**.

Nudge [*Github*]   April – May 2021
- A **React Native** social to-do list app where user can send small tasks to their friends, so everyday favors are done easily.
- Implemented push notification, user management, and in-app logic with **Firebase** Cloud Messaging and Cloud Functions.

Shell   October 2020
- Implemented a custom shell with **C** that takes in and parses user commands to operate functionality as Linux terminal.
- Program supports multiple built-in commands (cd, ls), launching jobs in background, and terminating processes on signals.

Trade Tracker [*Github*]   July – August 2020
- A command line interface that helps day trader calculate cumulative earnings on any ticker over time, built with **Python**.
- Utilized Pandas, argparse, and consumed Yahoo Finance API to retrieve up-to-date stock price and information.

SKILLS & INTERESTS

Programming Languages: TypeScript, Python, Java, C/C++, SQL, HTML, CSS, JavaScript, LaTeX, MATLAB, R
Technologies: React, Redux, Express, Docker, MongoDB, Firebase, PostgreSQL, TensorFlow, AWS, GCP
Interests: Event Photography, Flight Simulation, Design, Tennis, Choosing VSCode Theme