

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: Object-oriented Programming, Data Structures, Computer Systems, Deep Learning, Hypertext Systems, Statistical Inference, Software Engineering (planned), Web Applications (planned), Discrete Structures (planned)

SKILLS

Proficient: Java, Python, C, TypeScript, React, Express, Flask, Git, MongoDB, SQL, TensorFlow

Competent: MATLAB, R, HTML, CSS, Angular, Figma, Pandas, LaTeX, Lightroom, SolidWorks

TECHNICAL EXPERIENCE

Keva Health, *Web Development Intern* [kevahealth.com] Lexington, MA | June 2020 - August 2020

- Rebuilt company website from scratch with WordPress, HTML and CSS; website generates 1000+ 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

Galea Health, *Software Engineering Intern* [onboard.galeahealth.com] New York, NY | June 2020 - August 2020

- Implemented home page for Galea's therapist onboarding system with Angular, TypeScript and HTML
- Resolved 50+ front-end related tickets in collaboration with webapp team; provided feedback through daily product testing

Full Stack at Brown, *Full Stack Engineer* Providence, RI | January 2020 - Present

- Led team of 3 to design and implement Brown Initiative for Policy website with JavaScript and Bootstrap [brownpolicy.org]
- Designed and helped implementing Brown Q&A Forum with a team of 8 using Handlebars, Express and SQL

Brown University, *Sunlab Consultant & Student Researcher* Providence, RI | August 2020 - Present

- As Sunlab Consultant, managed, organized, and maintained all open student computer labs at Brown University. Assisted students with any technical problems (SSH, PATH) regarding Brown University's computer labs (150+ hours per semester)
- As Undergraduate Student Researcher, conducted research in Soft-matching N-Grams to explore how modern search engine ranks the results. Replicated and validated old models, implementing new model with TensorFlow and NumPy

LEADERSHIP EXPERIENCE

Hack@Home, *Livestream Team Lead* [hackathome.org] Providence, RI | June 2020 – October 2020

- Organized Hack@Home online hackathon (more than 1000 registered hackers) with team of 20
- In charge of livestream experience on Facebook, maintained event website, and oversaw tech talks post-production

TEDxUWCChangshu, *Licensee & Organizer* Changshu, China | October 2017 - May 2019

- Led a team of 18 and organized 3 TEDx events; events attracted audience of 800+ from multiple cities around the region
- Managed and coordinated the 4 internal groups in the organizing team; designed promotional material with Adobe Illustrator
- Oversaw budget, and sponsorship of the event; raised \$4,000+ in total through ticket revenue and various sponsorship

TECHNICAL PROJECTS

Spectacles, a remote learning hypertext system, built with TypeScript, React and MongoDB [spectacles.work] December 2020

- Spectacle is a three-column webapp that supports creating and linking multi-media content nodes. Users can post comments on text, create links between nodes and make annotations on videos at specific timestamp
- Ideal use case for remote learning, as it allows teachers to provide feedback and student to take notes on videos
- Written and published NPM package that defines front/backend interfaces, utilized React Hook to manage component states.

Shell, a terminal written in C October 2020

- Implemented a shell program 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

BookQueries, a book database built with Flask, PostgreSQL & HTML [[GitHub](https://github.com)] [[Demo](#)] July 2020

- A book database that allows users to query 5000+ titles and post their reviews. Information queried from OpenLibrary API
- Implemented a simple user authentication system from scratch and built an API that returns book info based on its ISBN

INTERESTS

Event photography, aviation & flight simulation, and browsing Behance