

Louis Zhao

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EDUCATION

- **Columbia University in the City of New York** New York, NY
Master of Science in Biomedical Engineering, Specialization: Neuro Engineering Expected Dec. 2024
- **Columbia University in the City of New York** New York, NY
Bachelor of Science in Computer Science; GPA: 3.74 Sep. 2021 – May. 2023
Courses: Programming in Java, Data Structures and the Fundamentals of Computing, Linear Algebra, Discrete Math, Web App Development, Operating Systems, Advanced Programming, Fundamentals of Computer Systems, Computer Networks, Introduction to Databases, User Interface Design, Programming Language and Translators, Natural Language Processing, Computer Vision and Artificial Intelligence
- **Brandeis University** Waltham, MA
Bachelor of Arts in Computer Science Aug. 2018 – May. 2021

SKILLS

- **Proficient:** Python, Java, HTML/CSS/Javascript
- **Prior Experience:** Ruby on Rails, C, OCaml, SQL, MongoDB, Neo4j

EXPERIENCE

- **echo3D** New York, NY
Software Engineering Intern May 2022 - Aug 2022
 - **Web Development:** Developed a WebAR game using Javascript, Python, A-Frame, and Three.js that has 10+ playable features with 30% faster loading time and 70% less space needed comparing to traditional game development.
 - **iOS Development:** Constructed an AR application on iOS using Unity, C#, and echo3D API that allows users to visualize 3+ neuroscience models such as brain or spinal cord for educational demonstration.
 - **Collaboration:** Partnered with the Engineering team and presented the progress in weekly meetings. Iteratively improved the product by finishing 3+ new feature requests weekly.
- **Changing Room** New York, NY
Software Engineering Intern May 2022 - Aug 2022
 - **Chrome Extension:** Maintained the Chrome Extension using Svelte framework, Javascript and Python by adding 5+ new features such as displaying overall ratings and recommendations when the user visits unsupported brand websites with 40% faster loading time.
 - **Web Development:** Enhanced the website using Python, Javascript, and PostgreSQL by adding 10+ features, fixing 20+ bugs, reducing the computing time by 30% and improving the documentation and comment coverage by 10%.
 - **Collaboration:** Promoted communication between CEO, Software team, UI/UX team, and Data Engineering team and synthesized the Figma design, user feedback, CEO requests, and new spring tasks into tangible products.
- **Elphi** Boston, MA
Software Engineering Intern Dec 2020 - Jan 2021
 - **Web Development:** Forged new features for the web application using React.js, Firebase, and Reactstrap such as allowing the mortgage lenders to view and manipulate borrowers' information with 20% better performance.
 - **Documentation:** Initiated and refined the documentation on Confluence for the Engineering team.

PROJECTS

- **Crust:** A compiler for a newly designed C-like programming language that imitates AWK functions.
- **Learning American Sign Language:** A web application using Python Flask, Javascript, and jQuery that allows users to learn the basics of American Sign Language in under ten minutes.