

Yichong Liu

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EDUCATION

University of Massachusetts Amherst

Amherst, MA

Bachelor of Science in Computer Science, Minor in Mathematics

Aug. 2020 – May. 2023

CS Courses *Intro to Java and C, Data structures, Algorithms, Computer System Principles, Database Management, Web Programming, Operating Systems, Scalable Web Systems, Computer Network, Machine Learning, Information System, Search Engines, Computer Graphics* **Math Courses** *Calculus, Multivariate Calculus, Discrete Math, Linear Algebra (and its applications), Abstract Algebra, Probability theory, Ordinary Differential Equations*

PROFESSIONAL EXPERIENCE

Undergraduate Course Assistant

Sep. 2022 – May. 2023

Manning College Information and Computer Sciences, UMass Amherst

Amherst, MA

- Assisted over 200 students in the Operating System course through semiweekly office hours. Provided personalized guidance on course concepts, coding projects, and lab assignments in C and C++.
- Actively participated in weekly lab sessions, effectively delivering course concepts, assigning lab tasks, and addressing students' questions, fostering a collaborative learning environment.
- Demonstrated strong organizational skills by consistently grading assignments promptly. Provided valuable, constructive feedback to students, enhancing their overall learning experience.

Web Developer Intern

Jun. 2022 – Aug. 2022

SciQuel Team at Harvard Innovation Lab

Cambridge, MA

- Leveraged Next.js and React.js within a front-end framework to design and resize the official SciQuel website. Key contributions included the homepage and article page design.
- Managed the project repository using Git and GitHub, enabling efficient collaboration through pull requests. Oversaw website deployment on Heroku and Vercel platforms.

Java Software Developer Intern

Jun. 2019 – Aug. 2019

Sichuan Behome Prominent Technology Co., Ltd

Chengdu, China

- Developed a school management system to streamline homework corrections and grade records for instructors.
- Utilized Java Springboot and Microsoft SQL Server for system design, development, testing, and implementation.

PROJECTS

WikiTwinkie | *React, Typescript, NodeJS, Redis, SQL, Docker*

Sep. 2022 – Jan. 2023

- Developed "WikiTwinkie," a Wikipedia-like application that enables users to add, delete, and describe new words and articles. Utilized Redis for efficient back-end data management.
- Utilized React with Typescript for front-end development and managed project deployment using Docker.

Rentern | *HTML, CSS, Javascript, NodeJS, Postgresql, SQL, Websockets, Heroku*

Feb. 2022 – May. 2022

- Developed "Rentern," a full-stack website designed to assist individuals in finding compatible roommates based on their preferences. The project involved using PostgreSQL as the back-end database.
- Created the front-end using Bootstrap, and implemented real-time chat using JavaScript websockets. Managed the project and used Git for version control and GitHub for collaboration, working with a team of three teammates.

Word Scrabble | *HTML, CSS, Javascript*

Jan. 2022 – Apr. 2022

- Created a browser-based clone of Scrabble, implementing game rules, tile distribution, word validation, and scoring. The user interface was developed using HTML, CSS, and JavaScript to provide an engaging game experience.

TECHNICAL SKILLS

Languages: Java, C, C++, JavaScript, Typescript, HTML, CSS, SQL/MySQL/PostgreSQL, Python, MATLAB

Frameworks & Libraries: React.js, Next.js, Three.js, Bootstrap, Springboot, Pytorch, Pandas, Numpy, Matplotlib

Developer Tools: Git, Docker, Maven, Postman, VSCode, Eclipse, VS, IDEA, Android Studio, Pycharm

HONORS & AWARDS

Dean's International Scholarship Manning College of Information and Computer Sciences

Jun 2021

Dean's List University of Massachusetts Amherst

Spring 2021 - Fall 2022