

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 *Programming in Java and C, Data structures, Algorithms, Programming Methodology, Computer System Principles, Database Management, Web Programming, Operating System, Scalable Web Systems, Computer Network, Machine Learning, Information System, Search Engines, Computer Graphics, Mobile Application Development (Android)*

Math Courses *Calculus, Multivariate Calculus, Discrete Math, Linear Algebra (and its applications), Abstract Algebra, Probability theory, Ordinary Differential Equations*

TECHNICAL SKILLS

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

Frameworks: React.js, Node.js, Next.js, Bootstrap, Springboot, Pytorch

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

Libraries: Pandas, NumPy, Matplotlib

JOB EXPERIENCE

Undergraduate Course Assistant

Sep. 2022 – May. 2023

Manning College Information and Computer Sciences, UMass Amherst

Amherst, MA

- Host office hours semiweekly to help 200+ students with the core Operating System course concepts, projects and coding questions in C/C++.
- Grade assignments, and answer questions both online and during weekly in-person lab.

Web Developer Intern

Jun. 2022 – Aug. 2022

SciQuel Team at Harvard Innovation Lab

Cambridge, MA

- Utilize front-end framework including Next.js and React.js to develop SciQuel official website including homepage and article page design and resize;
- Utilize Git + Github to manage the project repository and handle pull requests; Also being in charge of website deployment on the Heroku and Vercel platform.

Back-end Developer Intern

Nov. 2019 – Jun. 2020

Zhejiang Gongshang Software Laboratory

Hangzhou, China

- Utilized Python, Machine learning model (Semi-Supervised Learning), flask, and enterprise datasets, to make a comprehensive assessment of the company's operating status and future prediction.
- Write 20+ pages project documents using LaTeX and complete the final oral presentation.
- Won a second place at the National Student Service Outsourcing Innovation and Entrepreneurship Competition.

Java Software Developer Intern

Jul. 2019 – Aug. 2019

Sichuan Behome Prominent Technology Co., Ltd

Chengdu, China

- Develop school management system to help instructors with homework corrections and grade records
- Design, develop, troubleshoot, debug, test and implement codes by using Java springboot, Microsoft SQL server, Git + Gitee, etc.

PROJECTS

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

Feb. 2022 – May. 2022

- Developed a full-stack website to help people find ideal roommates based on their preferences
- Utilize PostgreSQL as the back-end, Bootstrap and pure HTML/CSS as the front-end.
- The chatting page is a plus using web sockets implemented in Javascript
- Project management and version control using Git/Github collaborating with three teammates

Word Scrabble | HTML/CSS, Javascript

Feb. 2022 – May 2022

- Developed a clone of word scrabble game using HTML/CSS and Javascript.

HONORS & AWARDS

Dean's International Scholarship College of Information and Computer Sciences

Jun 2021

Dean's List University of Massachusetts Amherst

Spring 2021 - Fall 2022