Wenzhao Qiu

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Education

University of Michigan — Ann Arbor, MI

Year: Junior; Major: Computer Science; GPA: 3.85/4.00 — *Expected Graduation: April 2024*

- **Relevant Coursework**: Web Systems, Intro to Machine Learning, Intro to Programming and Data Structures, Data Structures and Algorithms, Intro to Computer Organization, Discrete Math, Foundations of Computer Science, Intro to Probability and Statistics, Applied Linear Algebra, Honors Multivariable and Vector Calculus, Intro to Cryptology

Work Experience

JPMorgan Chase & Co. — Columbus, OH

Software Engineering Intern — *Jun - Aug 2022*

- **Greenfield Web Application**: Built a web application from scratch to display agile team performance according to the specifications of the product owner. Released updates based on customer feedback following initial deployment.
- **Full-Stack Development**: Spearheaded the organization and design of back-end data structures and models using prior knowledge of Java and Object-Oriented Programming. Applied new skills in React.js to maintain a fast, responsive, and visually pleasing UI on the front-end.
- **Agile Workflow**: Developed on a Scrum team to incrementally address a complex project over the course of 10 sprints.

University of Michigan College of Engineering — Ann Arbor, MI

Instructional Aide for EECS 280 (Intro to Programming and Data Structures) — *Aug 2021 - Present*

- **Exams Officer**: Organized question writing, testing, and proctoring groups and coordinated exam logistics for Winter 2022.
- **Labs**: Taught a 2-hour lab of 26 students every week during the Fall 2021 and Winter 2022 semester.
- **Office Hours**: Assisted students with a wide range of course-related issues, such as clarifying project specifications, explaining general course concepts, and relieving academic-related anxiety prior to project deadlines and exams.

University of Michigan School of Information — Ann Arbor, MI

Undergraduate Research Assistant — *Sept 2020 - Present*

- **Help Sessions**: Mentored high school students from underrepresented social groups in AP Computer Science A for 1 hour every week as part of the Rise Up for CS research program led by Professor Barbara Ericson.

Projects

Narwhal Metrics — *Jun - Aug 2022*

- Built a greenfield web app using Java Spring Boot and React.js to filter and display team performance and agility metrics as a full-stack software engineering intern at JPMorgan Chase & Co.
- Designed an efficient algorithm to simultaneously sort, filter, and calculate performance metrics for 1000+ teams, servicing up to 393 senior leaders and 87 products across the firm.
- Utilized asynchronous rendering to instantly display calculated metrics in the form of dynamic charts and data tables for all relevant teams under the selected filter, with less than 0.5 seconds of load time for each page.

Virtu-Launch — *Feb 2022*

- Accepted to the JPMorgan Chase & Co. Code for Good hackathon to offer innovative software solutions to issues presented by non-profit organizations.
- Developed Virtu-Launch, a virtual learning and networking platform for Launch gURLs in response to the group's prior difficulties with individual student participation in their programs.

DummysGuide2Climate — *Nov 2020*

- Worked on team WolVRine to create a virtual reality game in Unity dedicated to educating players on climate policy.
- Won 1st place at the 24-hr 2020 Ecohacks hackathon.

Replastikos — *Nov 2020*

- Developed Replastikos, a time-sensitive drag-and-drop recycling game in Java for the Hack OHI/O hackathon.

Extracurriculars

Michigan Hackers Machine Learning Team — Ann Arbor, MI

Core Member — *Oct 2020 - April 2021*

- **Natural Language Processing**: Developed an extractive text summarizer for PDF and image files as part of the Natural Language Processing Team during the Winter 2021 semester.

Michigan Taekwondo — Ann Arbor, MI

Blue Belt — *Sept 2020 - Present*

Programming Skills

- **Languages & Frameworks**: C++, Java, Python, HTML/CSS/JavaScript, React.js, Spring Framework