

Liuhao Wu

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EDUCATION

University of Chicago (UChicago)

- B.S. in Computer Science; **GPA: 3.788**

Sep 2021 — Jun 2023

Chicago, IL

University of California, Santa Barbara (UCSB)

- Computer Science with Honors (*transferred out*); **GPA: 4.000**

Aug 2019 — Aug 2021

Santa Barbara, CA

EXPERIENCE

RedMane Technology LLC

Software Developer

Nov 2023 — Present

Chicago, IL

- Supported the design, development, and testing of a customized Client Relationship Management solution for the New Mexico Children, Youth, and Families Department to digitize the child welfare casework management process
- Analyzed solution architecture, created business object models using **Visio**, and translated 700+ high-level business requirements into detailed technical tasks, validating contract requirements and estimating development efforts
- Led 6 incoming team members with onboarding and training, and created coding style guidelines and quality control tools
- Refactored the C#/.NET codebase, implemented new features for processing 200+ million records, and incorporated a unit test framework to reduce technical debt and promote maintainability, reusability, and scalability
- Assisted in database maintenance and rendered analytical system reports using **Excel**, **SQL**, and **PowerBI**

We Are All Human Foundation

Web Project Intern

Sep 2023 — Nov 2023

Remote / New York, NY

- Designed and implemented an intranet website hosted on **Google Sites** using **HTML**, ensuring it aligned with organizational branding and served as a centralized hub for internal information
- Partnered with COO and HR to evaluate information architecture and develop a comprehensive metadata framework

RESEARCH

Marine Biological Laboratory

Undergraduate Researcher (Supervised by Dr. David Mark Welch and Dr. Elena Peredo)

Aug 2022 — Sep 2022

Woods Hole, MA

- Conducted and presented field research on microbiome recovery of spurdogs and chain catsharks during skin regeneration
- Analyzed DNA sequencing datasets using **Qiime2** to populate various bioinformatic graphs and statistical visualizations

UChicago Computing for Anyone (CANON) Lab

Undergraduate Researcher (Supervised by Prof. Diana Franklin)

May 2022 — Aug 2022

Chicago, IL

- Presented feedback analysis and drafted 2 research papers in collaboration with researchers and educators using data collected from 50 Chicago Public School students
- Designed and developed an educational game QueueBits on **Unity**, introducing quantum computing concepts to youth learners
- Implemented the **JavaScript/React** frontend of Entwine, an educational website digitizing instructional paper worksheets for the Scratch programming platform

UChicago Human-Robot Interaction (HRI) Lab

Undergraduate Researcher (Supervised by Prof. Sarah Sebo)

Apr 2022 — Jul 2022

Chicago, IL

- Conducted 12 research experiments and analyzed 45 video recordings to compare the ability of humanoid robot NAO and traditional media to successfully foster meaningful human connections
- Supported data analysis in **R** to extract insights on social robotic studies and create a research thesis storyline

UCSB Religion, Experience, and Mind (REM) Group

Undergraduate Researcher (Supervised by Prof. Ann Taves and Dr. Elliott Ihm)

Jun 2021 — Aug 2021

Santa Barbara, CA

- Analyzed and presented findings from 1000+ surveys using **R** for the Inventory of Non-Ordinary Experiences, a project exploring the paranormal and extrasensory experiences contextualized in cognitive social science and psychology
- Led interviews and academic literacy reviews on the influence of meditation practices and religious/spiritual traditions on non-ordinary experiences

UCSB Gevirtz Graduate School of Education

Undergraduate Researcher (Supervised by Prof. Diana Arya)

Jan 2021 — Aug 2021

Santa Barbara, CA

- Codeveloped a Virtual Reality-based game as an immersive and innovative tool for remedial literacy education
- Designed and implemented game algorithm on **Unity**, and developed 3D art assets on **Blender**

SKILLS

Programming: SQL, R, C#/.NET, C/C++, SwiftUI, Python, Java, JavaScript, HTML, CSS

Toolbox: Git, PowerBI, Excel, Visio, LaTeX, Azure, CI/CD, TCP, OpenCV, UNIX, Unity, Blender, Arduino, Qiime2, Jupyter, Docker