

Liuhao Wu

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EDUCATION

University of Chicago (UChicago) <ul style="list-style-type: none">B.S. in Computer Science; GPA: 3.788	Sep 2021 — Jun 2023 Chicago, IL
University of California, Santa Barbara (UCSB) <ul style="list-style-type: none">Computer Science with Honors (<i>transferred out</i>); GPA: 4.000	Aug 2019 — Aug 2021 Santa Barbara, CA

EXPERIENCE

RedMane Technology LLC <i>Software Developer</i> <ul style="list-style-type: none">Collaborated in designing, developing, and testing a customized Client Relationship Management solution for the New Mexico Children, Youth, and Families Department to digitize child welfare casework management processAnalyzed solution architecture, created business object models, and translated high-level business requirements into detailed technical tasks, validating contract requirements and estimating development effortsRefactored the C#/.NET codebase, implemented new features for processing over 200 million records, and incorporated a unit test framework to reduce technical debt and promote maintainability, reusability, and scalabilityAssisted in database maintenance and rendered analytical system reports using Excel, SQL, and PowerBILed incoming team members with onboarding and training, and created coding style guidelines and quality control tools	Nov 2023 — Present Chicago, IL
We Are All Human Foundation <i>Web Project Intern</i> <ul style="list-style-type: none">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 informationPartnered with COO and HR to evaluate and update information architecture, developing comprehensive metadata framework	Sep 2023 — Nov 2023 Remote / New York, NY

RESEARCH

Marine Biological Laboratory <i>Undergraduate Researcher (Supervised by Dr. David Mark Welch and Dr. Elena Peredo)</i> <ul style="list-style-type: none">Conducted and presented field research on microbiome recovery of spurdogs and chain catsharks during skin regenerationAnalyzed DNA sequencing datasets using Qiime2 to populate various bioinformatic graphs and statistical visualizations	Aug 2022 — Sep 2022 Woods Hole, MA
UChicago Computing for Anyone (CANON) Lab <i>Undergraduate Researcher (Supervised by Prof. Diana Franklin)</i> <ul style="list-style-type: none">Designed and developed an educational game QueueBits on Unity, introducing quantum computing concepts to youth learnersImplemented the JavaScript/React frontend of Entwine, an educational website transforming paper worksheets to the Scratch programming platform, with features including roster management, class module creation, and project progress checkPresented feedback analysis and drafted 2 research papers in collaboration with researchers and educators using data collected from 50 Chicago Public School students	May 2022 — Aug 2022 Chicago, IL
UChicago Human-Robot Interaction (HRI) Lab <i>Undergraduate Researcher (Supervised by Prof. Sarah Sebo)</i> <ul style="list-style-type: none">Conducted dozens of research experiments and analyzed 45 video recordings to compare the ability of humanoid robot NAO and traditional media to successfully foster meaningful human connectionsSupported data analysis in R from surveys to extract insights on social robotic studies and create research thesis storyline	Apr 2022 — Jul 2022 Chicago, IL
UCSB Religion, Experience, and Mind (REM) Group <i>Undergraduate Researcher (Supervised by Prof. Ann Taves and Dr. Elliott Ihm)</i> <ul style="list-style-type: none">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 psychologyLed interviews and literacy reviews on the influence of meditation practices and religious/spiritual traditions on non-ordinary experiences	Jun 2021 — Aug 2021 Santa Barbara, CA
UCSB Gevirtz Graduate School of Education <i>Undergraduate Researcher (Supervised by Prof. Diana Arya)</i> <ul style="list-style-type: none">Codeveloped a Virtual Reality-based game as an immersive and innovative tool for remedial literacy educationDesigned and implemented game algorithm on Unity, and developed 3D art assets on Blender	Jan 2021 — Aug 2021 Santa Barbara, CA

SKILLS

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

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