

Ruocen (Rachel) Liao

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA

Bachelor of Arts Chemistry, Additional Major in Human Computer Interaction, Minor in Computer Science

GPA: 3.9/4.0

Dean's List High Honor: Fall 2019, Fall and Spring 2018 – 2019, Fall and Spring 2017-2018

Selected Coursework: Persuasive Design, Introduction to Computer System, Parallel and Sequential Data Structure and Algorithms, Introduction to 3D Animation

PROJECT EXPERIENCE

Independent Study, CMU

Pittsburgh, PA

Maker Entrepreneur User Research Project (in progress)

Sep 2020-Present

- Conducted background research on maker entrepreneurs, the maker's movement, and marketing strategies
- Continued to recruit and interview maker entrepreneurs to identify their technological needs

Programmable User Interface, CMU

Pittsburgh, PA

"Bun Bun Bake Shop" Design (in progress)

Sep 2020-Present

- Designed a website for a local bakery store with delivery service targeting families with kids
- Used lo-fi paper prototype and hi-fi prototype in Figma to perform user tests and made optimizations accordingly
- Implemented the website in HTML/CSS3 & JavaScript

Interaction Design Studio, CMU

Pittsburgh, PA

Individual project - Shall Make Shall Be: Call for Proposal Website

Aug 2020-Present

- Studied principles of web UI design-grid, color, information architecture
- Accomplished a process book to demonstrate learning process and created a UI prototype in Figma
- Currently working on the project of Interface Design for light

User-Centered Research and Evaluation, CMU

Pittsburgh, PA

Group Project - ArTogether

Jan 2020-May 2020

- Proposed ArTogether: an interactive public art museum that enables a shared art experience online which aimed to increase the impact of public art on the livability of cities such as Pittsburgh
- Conducted user research via methods like contextual inquiry, affinity diagramming, think-aloud protocol and storyboard speed dating
- Generated insights based on background research and interview interpretation sessions
- Facilitated meetings and set agenda with teammates remotely during the pandemic

Design Human Centered Software, CMU

Pittsburgh, PA

Group Project – Game Interface Optimization Design

Sep 2019-Oct 2019

- Revised the interface and functionality of a game to increase the speed of completion
 - Wrote code in Java to create working prototype; used Processing for visualization
 - Conducted user testing, brainstormed persistently and combined insights from team members; implemented and refined the prototype using the feedbacks accordingly
 - Won the top three team of fastest average completion speed
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Pacman, CMU

Game Programming Project

Pittsburgh, PA

Jul 2018

- Designed and implemented a fully functional game in Python in a week
- Optimized the game interface and made adjustments through user testing

INTERNSHIP EXPERIENCE

Oracle

Beijing, China

Solution Engineer Intern

Jul 2019-Aug 2019

- Analyzed sales data and compiled database by Autonomous Data Warehouse and Oracle Analytics Cloud
- Visualized data analysis results by generating graphs and put forward solutions for potential issues
- Designed meeting reports in PowerPoints for professionals in the department

LEADERSHIP EXPERIENCE

Shotokan Karate Club, Carnegie Mellon University

Aug 2019 – Present

President

- Plan and manage club activities, practices and use of money
- Recruit new members and advocate for the club

SKILLS

Software: Figma, Mural, Miro, Tableau, PowerPoint, Oracle ADW, Oracle OAC, Mathematica, Maya, zBrush

Programming Languages: C, Python, HTML, CSS3, Javascript, Java, Standard ML

Languages: Chinese (Native Speaker), English (Fluent)