JIEWEN WU

Portfolio: jw4590.github.io

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PROJECTS

Virtual Drug Doping Lab | Designer & Developer

Sept 2020 - present

A web-based virtual drug doping experiment lab that will be used by students in a Chemistry lab course at Bucknell University.

- Designed and implemented an instruction page that explains the learning goals and the overall process of the lab.
- Designed a storyline for the lab to engage the students.
- Developed real-time chromatograms to simulate user-selected cases and solvent ratios by Chart.js.
- Released the product, currently in the testing stage.

China Local – Jinhua Village | Designer & Developer

May 2020 - present

A website that integrates a diverse body of materials on the current conditions of late imperial Chinese villages in Jinhua city.

- Designed the visual tour feature for the website in which users can turn their view angles, see the details in the scenes, and navigate to the nearby scenes.
- Implemented panorama visual tours for the Tangxi City God Temple and the Guodong Village scenes by Pannellum.js.
- Supported by the **Mellon Confounding Problems Grants**.

COVID-19 Timeline in Hubei China | Designer & Developer

May 2020

A website that presents the epidemic data of COVID-19 in Hubei, China.

- Designed and implemented an interactive user interface that allows the users to track the epidemic spread using a horizontal slider or mouse hover.
- Designed and implemented an interactive timeline from day 20 to day 117 after China reported a cluster of cases in Wuhan and summarized the major steps taken by the government to stop the spread.

Binvolved | Designer & Researcher

Oct 2019 - Feb 2020

A social mobile application that helps Chinese international students who struggle when getting involved on campus at Bucknell University.

- Observed the interactions between international students with peers during several on-campus events at Bucknell University.
- Conducted four qualitative interviews with Chinese international students to learn about any barriers they faced when getting involved on campus.
- Created a prototype with features of customized tags, contacts syncing, and achievement badges based on user research outcomes.

Allergy Chef Hero | Designer, Researcher & Developer

Sept 2019 - May 2020

A web game that introduces the concept of food allergy to children and helps them to better support their peers with special dietary needs.

- Conducted eight interviews with children who have food allergies and learned about their daily lives and struggles.
- Applied the theory of cognitive development to tailor this game for children at the end of the preoperational stage.
- Designed and developed the game in which users can establish empathy through role-playing a hero.
- Conducted user testing at Lewisburg Children's Museum.

EDUCATION

Bucknell University

August 2017 - present

Expected graduation: May 2021

B.A. computer science & education

GPA: 3.82/4.00

COURSES

- Qualitative Research Methods
- Learning and Development in Postsecondary Education
- Student Affairs Programs in Higher Education
- Introduction to Web Design
- Human-Computer Interaction
- Software Engineering and Design

SKILLS & TOOLS

Design	Programming
User Interview	JavaScript
Brainstorming	HTML5
Wireframing	CSS3
Prototyping	Python
Interface Design	Java
User Testing	SCRUM

HONORS & LEADERSHIP

President of Chinese Students and Scholars Association
May 2018 - Aug 2019

Vice President of Mathematical Association of America
Sept 2018 - present

Dean's List
Sept 2017 - present

Alpha Lambda Delta Honor Society
Sept 2017 - present

PERSONAL INTERESTS

Handbell ringing, digital painting, singing, baking.