Joanne Tsai

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EDUCATION

Cargenie Mellon University

B.S. Information Systems
Minors: Business Analytics &
Human-Computer Interaction

2020 - 2024

GPA 3.8 • Dean's List, High Honors

Relevant Coursework

Prin. of Imperative Computation
Fundamentals of Programming & CS
Foundations of SW Engineering
App. Design & Development
Web Application Development
Programming Usable Interfaces

SKILLS

Programming

JavaScript, HTML/CSS, Python,
C++, C, Ruby on Rails

Database

SQL, MongoDB, BigQuery, R, Stata

Design

Figma, Canva, Bootstrap,
Prototyping, Storyboards
Wireframes, UX Research

LEADERSHIP

Lead Mentor

Women in IS
Aug 2022 - Present

UI/UX Designer

Business Technology Group
Sep 2022 - Present

Data Scientist

Business Technology Group
Feb 2022 - May 2022

EXPERIENCE

STEP (Student Training in Engineering Program) Intern

Google

May 2022 - August 2022 | Taipei, Taiwan

Refactored code to enhance internal developer tool used by Google Nest.
Integrated a third-party library API and contributed to test writing in C++.
Volunteered to plan off-site social events for 100+ interns.

Teaching Assistant (Database Design & Development)

Carnegie Mellon University

Aug 2022 - Present | Pittsburgh, PA

Leading weekly labs on database design, SQL, and MongoDB queries to
~20 students. Mentoring 6 teams on database projects. Holding weekly
office hours and grading assignments on Jupyter Notebook.

Research Assistant

Human-Computer Interaction Institute @ CMU

Jan 2022 - May 2022 | Pittsburgh, PA

Collaborated with peer support platform 7 Cups to personalize online
therapy services and user interfaces. Performed data migration and
analysis on 1M+ user records with MySQL, BigQuery, and Stata.

PROJECTS

Great Pittsburgh Baking Outlet

Feb 2022 - May 2022 | App. Design & Development

Built a fully functional e-commerce website from scratch using Ruby on
Rails. Created relational database and implemented the Model-View-
Controller pattern. Designed and prototyped UI and dashboards.

HealthConnect

Mar 2022 - Apr 2022 | Programming Usable Interfaces

Re-designed and built a functional website using HTML, CSS, and
JavaScript to improve CMU's health services' appointment scheduling
process. Created wireframes and prototypes. Conducted user testings.

Hamster Fund

Apr 2021 - Jul 2021 | Fundamentals of Programming & CS

Designed a personal budgeting app that generates graphical analysis and
ratings of user's spending based on real-time data. Programmed UI in
Python and executed libraries for data visualizations and scraping.