Huarui Lai

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Education

Carnegie Mellon University *May 2025*
B.S. Information Systems **GPA:** *3.68/4.0*
Relevant Coursework: Programmable User Interfaces (React, JS, HTML, CSS), Design Fundamentals: Shaping Interactions, Principles of Imperative Computation (C), Fundamentals of Programming and Computer Science (Python), Database Design and Development (SQL), Linear Algebra and Vector Calculus (MATLAB), Decision Theory, Fundamentals of Mechanical Engineering (SolidWorks)

Experience

Google *Mountain View, CA* *May 2022 - Aug 2022*
STEP Intern
- Expanded and streamlined display of data and search filters on Explorer–an internal full-stack tool used by around 3000 Googlers for reviewing Google Ads–for entities processed by Ads Integrity
- Contributed and modified over 1500 lines of code to implement new features containing interactive chip panels, tables, specification filters, and newly-styled pages for a consistent UI using Protocol Buffers, Java, Javascript, HTML, and CSS

Google Computer Science Summer Institute *virtual* *Jul 2021 - Aug 2021*
Advanced Track Online Participant
- Collaboratively built an interactive maze game utilizing Javascript, HTML, CSS, and Firebase and delivered a final project presentation and live demonstration to Google engineers, employees, and community leaders
- Expanded on 15 daily website deliverables, engaged in product design, resume development, and software engineering interview workshops

MIRRORLab at Colorado School of Mines *virtual* *Jun 2020 - Mar 2021*
Unpaid Research Intern
- Engineered a machine-learning model to better identify when to use different politeness strategies using Python and SciKit-Learn
- Experimented with different models (naive Bayes, decision trees, logistic regression) to achieve higher train/test accuracy
- Became familiarized with the basics of human-robot interaction through reading research papers and listening to field speakers

Projects

Jam and Jelly Spotify Playlist Generator *Nov 2021*
https://youtu.be/rhHavSdX7ck
- Utilized spotipy (Spotify API), recursive backtracking, graph algorithm logic, and Python to create an editable playlist of varying size for users--generated playlists based on user's favorite artist, genre, and current mood
- Integrated aesthetic user interface using Tkinter package and Python graphics

Star Hacks Online Civic Hackathon Competition *Jun 2020*
- Achieved first place in intermediate category in a global, all-female hackathon
- Designed *Masks for your Community*, a website providing information on PPE access during the pandemic, instructions on making homemade masks, and connected mask-makers with people in need of PPE to increase accessibility utilizing Javascript, HTML, and CSS

Technical Skills

Languages Java, Python, C, C++, Javascript (React), HTML, CSS, SQL, Processing, Swift
Applications VS Code, Canva, Adobe Illustrator, Spreadsheet, MATLAB, SolidWorks