# SHENAI CHAN

Pittsburgh, PA

📞 972-979-1279  ✉ swchan@andrew.cmu.edu  🔗 shenaichan  ⌨ shenaichan

## EDUCATION

**Carnegie Mellon University**                                                                                  **August 2020 – May 2024**
*B.S. in Electrical & Computer Engineering, Art minor - **QPA** - **3.8***                                              *Pittsburgh, PA*

## RELEVANT COURSEWORK

*\* indicates current coursework*

- Signals & Systems*
- Machine Learning*
- Computer Systems
- Probability & Statistics
- Survey of Electrical & Computer Engineering
- Imperative Programming
- Discrete Mathematics & Mathematical Proofs
- Physics I & II
- Differential Equations
- Multivariable Calculus

## PROJECTS

**Markov Chain Generated Love Letters** ↗                                                                            **December 2021**
- Utilized **Pandas** and **Markovify** Python modules to manipulate large text corpus & generate love letter poetry, experimenting with **creative data visualization** by way of editing model hyperparameters
- Used **Vsketch** Python module to generate living room scenes from Google "Quick, Draw!" dataset

**Blind-Accessible Digital Scale** ↗                                                                                  **December 2021**
- Worked in team of 3 to create original digital scale designed for our blind client, bridging **UI/UX** and **human-centric design principles** to produce scale with **Arduino** and other electrical components, as well as **CAD modelled laser-cut** pieces
- Scale outfitted with braille labelling, tactile bordered scale plate, and speaker output

**Morning Poetry Printer** ↗                                                                                          **October 2021**
- Created tool with **Arduino** which senses the sound of an alarm and prints from a corpus of poetry to incentivize waking up

## RESEARCH & WORK

**IDeATe @ CMU** ↗                                                                                            **June 2021 – Present**
*Senior Tech Advisor*                                                                                                 *Pittsburgh, PA*
- Assist and advise students on **3-D printing** and **laser-cutting**; assist faculty with lab maintenance

**Collective Intelligence Lab @ CMU** ↗                                                                **May 2021 – August 2021**
*Research Assistant & Data Scientist*                                                                                 *Pittsburgh, PA*
- Assisted on project which tested effect of mood on affiliation and collective intelligence in remote collaboration
- Managed numerous data streams to clarify results of experiments
- Utilized **Selenium** for webscraping, **Pandas** Python module for management of numerical and transcription data, and **openSMILE** toolkit for speech analysis processes

## TECHNICAL SKILLS

**Languages:** Python, C, C++, JavaScript, MatLab
**Other Frameworks/Skills:** Laser Cutting, 3-D Printing, Soldering, Webscraping, GitHub, Arduino, Physical Computing, Data Manipulation, Product Design, Human-Centric Design

## EXTRACURRICULAR

**Scotch'n'Soda Theatre @ CMU** ↗                                                                    **May 2021 – December 2021**
*Secretary*                                                                                                          *Pittsburgh, PA*
- Wrote **weekly updates** to mailing list of 1,400 to maintain awareness of current shows and events, managed **agenda** and **meeting minutes** for executive board meetings
- Collaborated with other executive members to select shows, coordinate show process, monitor rehearsals and tech areas, and engage in Pittsburgh-wide mutual aid programs