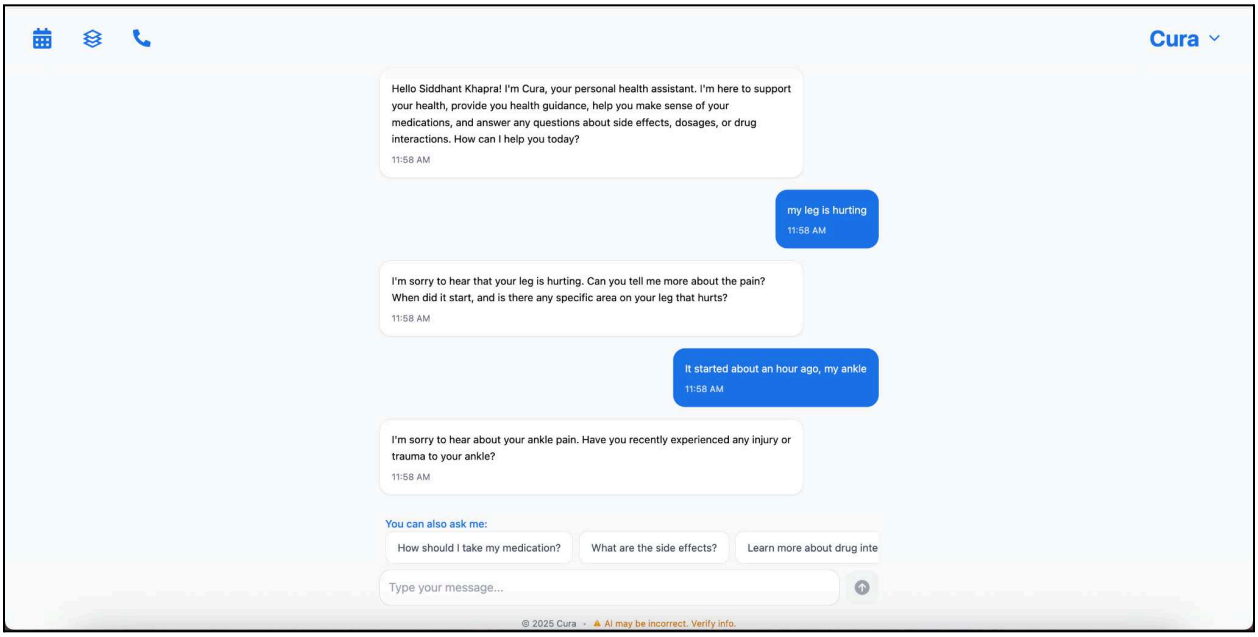
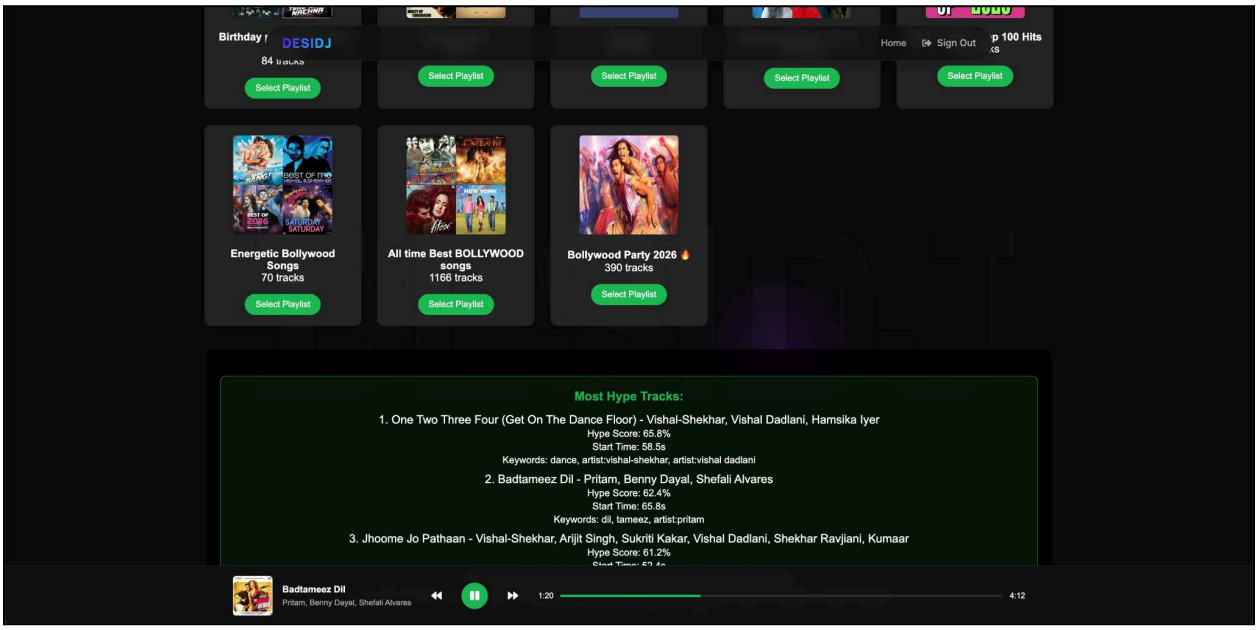
Cura Screenshot



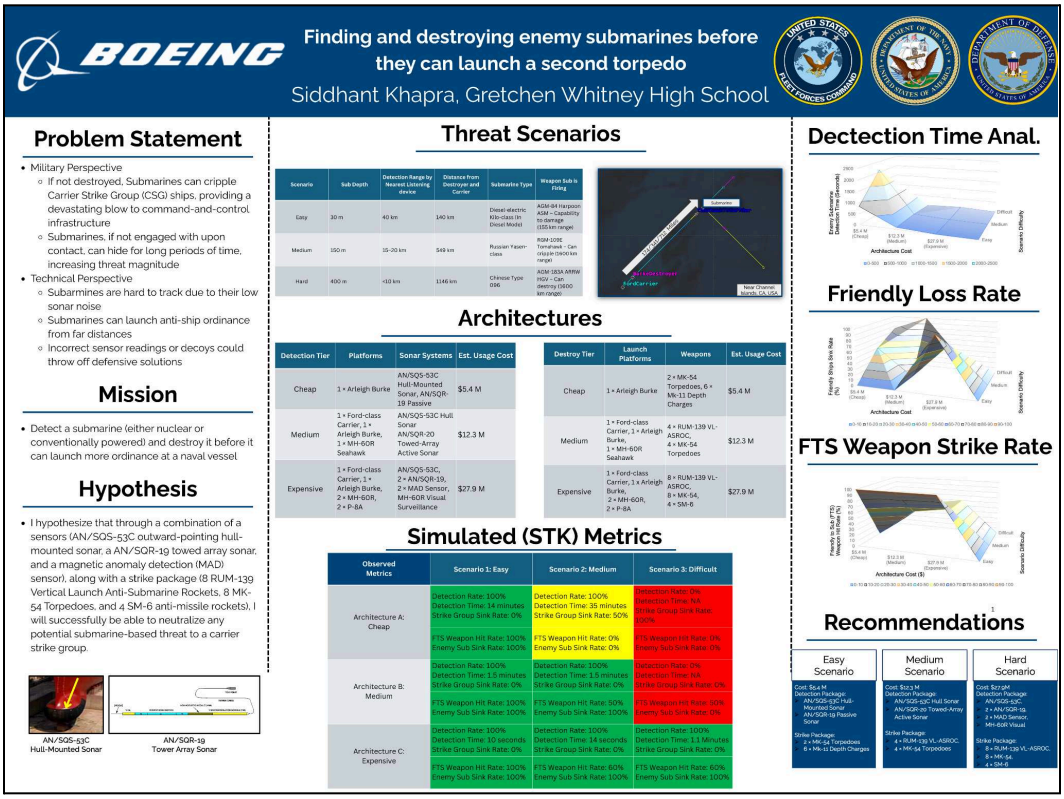
This is a screenshot of the web-interface of Cura, an AI health assistant I made inspired by my grandma's trouble understanding the effects of her cancer treatment in simple Hindi. It is capable of supporting patients in 92 languages. It is accessible via web, calling, and WhatsApp. I built it using using React (Frontend), Express.js (Backend), OpenAI Fine-tuned LLM (AI Capabilities), Google Cloud Speech (Patient-Voice Interaction), and Twilio (SMS & WhatsApp Messaging Platform). You can access it at mycura.org.

DesiDJ Screenshot



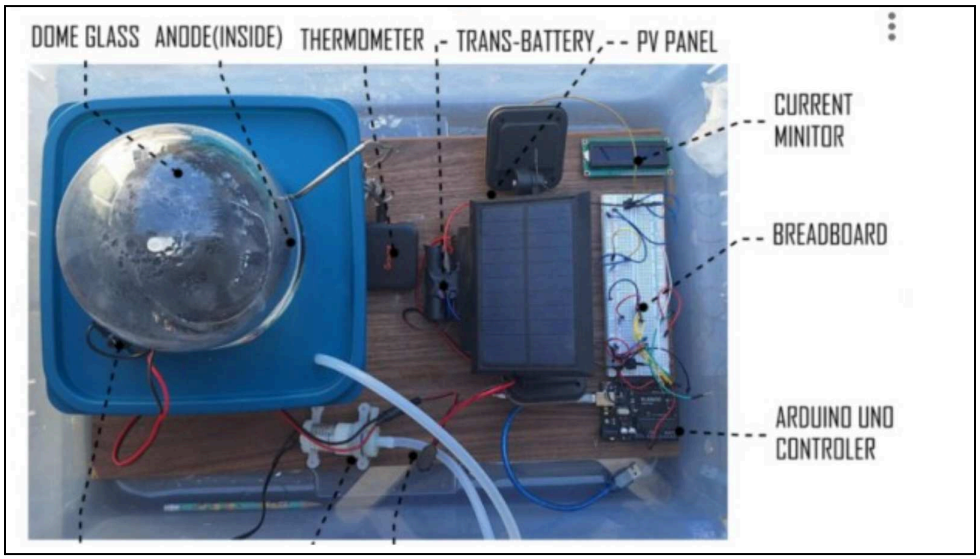
This is a screenshot of the web interface for DesiDJ, a free online DJ I built after my youth group didn't have a DJ at a retreat. You can pick a playlist from Spotify and DesiDJ will create "mood vectors," then queries Spotify for tracks whose tempo, key, and energy best match that mood and ranks candidates by similarity. It then downloads track previews, extracts audio features (tempo via spectral analysis), time-stretches tracks when BPM mismatches are large, and produces seamless equal-power cross-fades with dynamic EQ envelopes, served through a Flask-based web backend with endpoints for Spotify auth, playlist retrieval, transition generation, and playback. You can access it at desidj.org.

Boeing Internship Anti-submarine Warfare Project



This is a picture of my Boeing internship's presentation which I gave to 40+ Boeing engineers and a US House Representative. Using Systems Tool Kit and Python, I modeled and simulated 10 warships, 8 helicopters, 36 weapons, and 7 sonars/radars/magnetic sensors of various configurations. I then analyzed my findings after running 54 simulations to graph and give recommendations on which detection/strike solution would be best for which scenario.

AP Chemistry Personal Project (Earned LACSEF Recognition)



This is the overhead view of a project I made for my Chemistry class. I designed and tested an automated photovoltaic water-electrolysis setup that produces hydrogen and oxygen, powered either by a regulated 5V supply or directly by a solar panel. An Arduino-controlled pump periodically transfers the generated gas into a collection balloon so output volume can be measured consistently over time. In experiments, the system produced about 877 mL of hydrogen per hour at a steady 5V input and about 88 mL per hour when powered by the solar panel, showing how power stability and current availability drive electrolysis efficiency.