

EXPERIENCE	Recurse Center - Participant	2023-present
	<ul style="list-style-type: none"><li>– <b><u>rhythmonics</u></b>: interactive GUI visualizing the relationship between polyrhythms and harmony<ul style="list-style-type: none"><li>– Written in <b>Python</b> using the pygame library, sound design from scratch</li><li>– Designed, coded, and documented from scratch to be graphically intuitive, aesthetically pretty, and educational</li></ul></li><li>– <b><u>waveformr</u></b> (in progress): playground to shape soundwaves in time domain or frequency domain<ul style="list-style-type: none"><li>– Written in <b>JavaScript</b> with the <b>p5.js</b> library, using the <b>WebAudio</b> and <b>WebMIDI</b> APIs</li><li>– Can draw arbitrary waveform in time domain or frequency domain to loop at arbitrary pitches (controllable by MIDI or arrow keys)</li><li>– In progress: building a GUI around the canvas with the <b>React</b> framework to offer controls and ability to import/export waveforms via drag-and-drop</li></ul></li><li>– <b><u>minichat</u></b>: anonymous minimum viable chat app using websockets<ul style="list-style-type: none"><li>– <b>JavaScript SocketIO</b> client, <b>Flask</b> server using the <b>Python SocketIO</b> library built with minimum functionality to explore websockets</li></ul></li><li>– Organized workshops on developer tooling, music software, and Accessibility, gave theory talks on the Fourier transform, and did a learning deep dive into <b>CSS</b>, <b>git</b>, and lightweight databases with <b>Node.js</b> and <b>SQLite</b></li><li>– Continuing my tenure here by focusing on building apps with the <b>React</b> framework and finishing in-progress projects</li></ul>	
ACADEMIC EXPERIENCE	PostDoc Radboud University, ERC-funded <b><u>COHUBICOL</u></b> Project	2020-2021
	<ul style="list-style-type: none"><li>– Collaborated with Lawyers and Legal Philosophers to account for Machine Learning’s effect on legal outcomes, legal decision-making, and on the Rule of Law</li><li>– Served a translational role, explicating how Machine Learning operates and co-creating vocabularies at the intersection of Law and CS</li></ul>	
	PhD UC Berkeley, <i>Computer Science</i>	2014-2020
	<ul style="list-style-type: none"><li>– Published <b><u>novel results</u></b> for Learning Algorithms, Cryptography, and Pseudorandomness in premiere conferences, where I also organized workshops and presented</li><li>– Spent semesters researching at CUHK, MIT, Stanford, UCSD, etc., collaborating with professors and students, presenting my work, and publishing results</li></ul>	
	BA CSU Sacramento, <i>Math &amp; Computer Science, minor in Statistics</i>	2009-2014
	<ul style="list-style-type: none"><li>– Coursework primarily in <b>Java</b> with Systems in <b>C</b>. Experience with in <b>R</b>, <b>Scheme</b>, <b>Octave</b>, and <b>Prolog</b>.</li><li>– Graduated with Highest Honors, Commencement Speaker</li></ul>	
TEACHING AND OUTREACH	<b><u>Extensive</u></b> teaching and outreach, ranging from teaching graduate Cryptography and upper division Ethics in Engineering at UC Berkeley, to outreach for high school students teaching, e.g., Introduction to Python and a course on Zero-Knowledge Proofs, to being in <b><u>a short film</u></b> explaining Complexity Theory to a lay audience	