

DOUGLAS LERNER
Web Developer

DouglasDev.github.io
Phone: (212) 794-1324
Doug88@ProtonMail.com

TECHNOLOGIES AND SKILLS

ES6+ JavaScript, CSS3, SCSS, React, Redux, Vue, Node, Express, WebRTC, Phaser, Websockets, Tone.js, Browser Extensions, Git, Webpack, Gulp, Mocha, jQuery, Python, Elm

EXPERIENCE

SuperDAO, Co-Lead Front-End Developer for KittieFight, March 2019 - August 2019

- Designed and implemented front-end architecture for unique CryptoKitties Ethereum Dapp.
- Implemented user interfaces, menus, and game flow logic, integrated React+Redux with Phaser 3 game engine, Synced Blockchain data with Spine animations and sounds.

Freelance Web Developer, 2017 - Present

- Awarded Top Freelancer on Upwork, with 100% job success rating.
- Created interactive dashboard for sales reps of medical supply company, that generates animated sales charts using Chart.js. Implemented responsive homepage for company based on Adobe XD designs.
- Automated communication with clients for multiple organizations by utilizing G Suite APIs to read data from Google Sheets and dynamically generate email invoices and notifications.
- Improved UX for multiple Wordpress and Wix based businesses with custom form validation scripts.

Pennington Publishing, Browser Extension Developer

- Sole developer of e-Comments Chrome extension that has gained 700+ users per month, which allows English teachers to automate essay feedback, using prewritten comment banks, video and audio comments, and speech-to-text transcription. Uses Vue, Vuex, and Google Drive API.

iASO Records, Mobile Developer

- Developed interactive drum app that enables users to lead a virtual percussion ensemble by mixing-and-matching rhythms for a variety of instruments and musical styles. Uses Tone.js, Vue, and Cordova.

University of Geosciences Instructor, Sept. 2016 - July 2017, Wuhan, China

- Taught European cultural history and conversational English to undergraduates.
- Designed custom bilingual curriculum using primary historical sources and multimedia.

EDUCATION

Recurse Center, November 2018 - February 2019

Intensive 3 month programming retreat where I worked on a variety of group and individual projects, which involved areas of programming including browser extension development, game development, machine learning, NLP, genetic algorithms, and computer generated music. While there, I built:

- **LeetCode Pairing Chrome Extension** - Enables coders to pair program remotely on LeetCode.com algorithm challenges in the browser, utilizing both text and video chat. Node, WebSockets and WebRTC.
- **Harpsichord Hero** - A digital harpsichord with a built-in knowledge of harmony and musical style, which allows users to effortlessly improvise complex melodies and chord progressions.
- **Neuro-Evolution Cocktail Party** - Uses a JavaScript implementation of a neuro-evolutionary algorithm to evolve neural networks that simulate human social interactions.
- **Cyberpunks Rock Climbing** – Integrated P2 physics engine, web sockets, Node Express server, and level editor into a multiplayer, cooperative, physics-based rock climbing game.
- **EvolutionScript** - An implementation of genetic programming in the browser which generates populations of randomly generated abstract syntax trees that are converted into JavaScript programs that reproduce, mutate, and evolve based on their ability to solve a task.

B.Sc. Biochemistry, Stony Brook University, New York