DOUGLAS LERNER
Web Developer

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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

Freelance Web Developer, 2017 – Present

• Awarded Top Freelancer on Upwork, with 100% job success rating

SuperDAO – Co-lead front-end developer for KittieFight – helped design and implement front-end architecture for unique Etherium Dapp, which allows users to battle and bet on CryptoKitties. Responsible for Implementing interfaces and menus, integrating React+Redux with Phaser 3 game engine, and syncing Blockchain data with Spine animations and sounds.

Pennington Publishing – Sole developer of e-Comments Chrome extension that has gained 500+ 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 VueJS, Vuex, and Google Drive API.

iASO Records – Sole developer of mobile drum app allows users to lead a virtual percussion ensemble in real time by mixing-and-matching rhythms for a variety of instruments and music styles. Made with Tone.JS, Vue, Framework7 and Cordova.

Rom3 Rehab - Created interactive dashboard for sales reps, that reads data from Laravel backend and generates animated sales charts using Chart.js. Implemented responsive homepage for company based on Adobe XD designs.

Various Jobs – Automated communication with clients for multiple organizations by writing scripts that used G Suite APIs to read data from Google Sheets and dynamically generate email invoices and notifications. Wrote Custom form validation scripts for Wordpress and Wix.

Recurse Center, November 2018 - February 2019

Self-directed full-time 3 month programming retreat where I worked on a variety of group and individual projects, which involves areas of programming including browser extension development, game development, machine learning, natural language processing, genetic algorithms, and computer generated music. During my time there, I built:

LeetCode Pairing Extension - A Chrome extension which enables coders to pair program over the internet and solve LeetCode.com algorithm coding challenges together. Users can type into a shared text editor and video chat in real time in the browser.

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, 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.

University of Geosciences Instructor, Sept. 2016 - July 2018, Wuhan, China

• Taught European Cultural History and Conversational English to Undergraduates
• Designed Custom Bilingual Curriculum using Primary Historical Sources and Multimedia

EDUCATION

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