

Jonathan Kurinsky

Full-stack SWE relocating to Philadelphia or Denver
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TECHNOLOGIES

Proficient: RESTful web application development utilizing Node/Express and PostgreSQL on the back end and React on the front end; single-page application design using state-management frameworks and concepts (Redux, React hooks); feature-based branching git workflow; NPM- and webpack-based tooling environment; TDD using Mocha, Chai. Highly proficient at ES6+ Javascript, familiar with best practices for functional-light, declarative programming style using libraries like Lodash. **Familiar:** Bash and Python scripting; jQuery and direct DOM manipulation; real-time application design using Socket IO and Firebase; real-time-application server design in Node.

PROJECTS

Pixalive [[deployed site](#)] [[repo](#)] May 2019

A multi-user, real-time, collaborative editor for animated sprites and pixel art built in two weeks using only pure functional components. Implements hooks-based diffing to optimize HTML canvas re-renders. Implements multi-user undo. Went through several rounds of profiling to identify and remove rendering & performance bottlenecks. Exports animated GIFs. I designed the stack & architecture, and built out the MVP as a prototype for my team.

Snek IO [[deployed site](#)] [[repo](#)] May 2019

A multiplayer browser game built for a four-day solo hackathon using Socket IO and vanilla JS. Uses a hand-rolled rendering engine built on top of the HTML5 canvas element. Uses a state-diffing algorithm to minimize bandwidth while keeping server/client state synchronized. Soft-launched an MVP via Reddit and tuned performance based on user feedback.

Edmazon [[deployed site](#)] [[repo](#)] April 2019

A full-featured RESTful e-commerce store built by a four-person team in an Agile environment. My contributions: database design using Sequelize ORM, designing the application-wide Redux store, implementing custom UI components in React, implementing session-based API route security, and all of the styling and design work (in plain CSS).

Sort Buddy [[deployed site](#)] [[repo](#)] April 2019

An educational tool for visualizing sorting algorithms commonly taught in introductory CS courses. Uses Redux to implement “time travel” through application states, allowing the user to step forwards and backwards through the sorting algorithms. UI styled by hand using plain CSS.

ADDITIONAL WORK EXPERIENCE

Teaching Fellow (June 2019 - present)

Fullstack Academy, Chicago: Mentored & taught students at 13-week web development bootcamp; wrote a repository using test-based learning to teach DOM manipulation; project-managed six student projects; graded & code-reviewed student projects; led algorithm exercises with classes of 20 students; conducted technical interviews with prospective students.

Logistics & Operations Manager (September 2011 - November 2019)

Haymarket Books, Chicago: Self-taught Python to build tools for automating operations workflows for a nonprofit publisher through period of 400% growth in order volume. Wrote & maintained a 3k-line object-oriented codebase integrating web scrapers, partner APIs, shipping hardware, and data viz tools behind a CLI interface.

EDUCATION

Fullstack Academy (January 2019 - May 2019)

13-week rigorous immersive development bootcamp teaching industry-standard professional practices and tooling for modern front- and back-end web development using a Javascript-based tech stack.

University of Chicago (September 2005 - July 2009)

Bachelor of Arts in philosophy, honors track; focus on mathematical logic & formal semantics. Department awards for undergraduate papers & contributions to undergraduate academic life.