

# Jon 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, declarative programming style using libraries like Lodash. Familiar with: Bash and Python scripting; jQuery and direct DOM manipulation; real-time application design using Socket IO and Firebase.

## PROJECTS

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

A multi-user real-time editor for animated sprites and pixel art based on Socket IO and React. Built in two weeks with a four-person team using only functional components (to learn the Hooks syntax). Implements a hand-rolled state management system. Went through several rounds of profiling to identify and remove rendering & performance bottlenecks. Exports animated GIFs.

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

A multiplayer browser game built for a four-day hackathon using Socket IO and vanilla JS. Hand-rolled rendering engine on top of HTML5 canvas element. Uses a 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 students at 13-week web development bootcamp; project manager for six student projects; graded & reviewed student code and 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: Managed operations for a nonprofit publisher through a period of 400% growth in order volume. Self-taught Python to build & maintain tools for automating operations workflows. Project-managed website relaunch.

## 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. 2008 Lee Family Prize for best undergraduate essay in philosophy.