

# Jonathan Kurinsky

Full-stack SWE relocating from Chicago to Philadelphia

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## TECHNOLOGIES

**Proficient:** RESTful web app development utilizing Node/Express and PostgreSQL on the back end and React on the front end; single-page app 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.

**Some familiarity:** Bash scripting; Python; Django; OOP design patterns; jQuery; server-client architecture for real-time-applications; Parcel bundler; JAMstack; Gatsby; GraphQL.

## 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 React components. Implements hand-rolled diffing to optimize HTML canvas re-renders. Implements multi-user undo. Exports animated GIFs. Used Chrome profiler to identify and remove rendering & performance bottlenecks. My contributions: architecting and building client MVP; architecting and building the server; designing some prototypical patterns for team to access and mutate the data using hooks and context.

**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. Optimized client-server model to minimize bandwidth while guaranteeing real-time state synchronization. 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. 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 2018)**

**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. Solo author & maintainer of a large object-oriented codebase integrating web scrapers, partner APIs, shipping hardware, and data viz tools behind a CLI.

## 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 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.