

Patrick Weaver

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RECENT EXPERIENCE

BookNook

Jan 2021 – Mar 2026

Remote

Engineering Lead / Engineering Manager

Jul 2023 – Mar 2026

Senior Software Engineer & Tech Lead

Jan 2021 – Jul 2023

- ★ Led engineering for a synchronous tutoring education platform serving 150k+ monthly student sessions with real time video, collaboration tools, and on-demand tutor scheduling.
- ★ Led development for tutor scheduling: initial MVP replacing a \$5MM contract, and migration to an asynchronous queuing system, improving response times, including eliminating high traffic timeouts and better supporting complex eligibility and availability requirements.
- ★ Led implementation of AI tooling in SDLC including building custom skills for legacy systems and creating agent specific documentation. Focused on migration of Node.js API to TypeScript and modern dependencies for better reliability with AI tooling.
- Implemented privacy focused systems ensuring COPPA and FERPA compliance that integrated with U.S. state level reporting systems and protected student data and PII by default.
- Contributed to migration from Heroku to AWS for both API and DB servers, including configuration with Terraform and monitoring with Grafana, and from CircleCI to GitHub Actions for testing and deployment.
- Managed dependency, tooling, and security updates, migrating codebases from Node 10 to 24, extensive authentication and authorization updates, and implementation of feature flag best practices.
- Managed teams of up to three engineers as direct reports. Mentored team members, conducted interviews, created onboarding materials, and improved planning and scoping processes.
- Worked with designers and a curriculum team to prototype and implement engaging and effective digital learning experiences for K-8 students for both Reading and Math content, with Reading content designed to adhere to a “science of reading” pedagogy.

Mouse

Jul 2018 – Jul 2020

New York, NY

Software Engineer, Learning Design

- Contributed to two full stack applications for curriculum platforms using React and Vue. Migrated one platform from server rendered templates to a Vue SPA. Containerized the platform to improve developer experience.
- Prototyped dozens of student facing learning tools on the web for technology curriculum. Worked with curriculum designers to implement student friendly implementations of concepts, such as encryption, game design, chatbots, machine learning, and web development.
- Built an analytics platform that adhered to strict privacy guidelines required by COPPA compliance.

NOTABLE WEB PROJECTS

IRL HTML

github.com/patrickweaver/irlhtml, doodles.patrickweaver.net/irl-html

An experiment with computer vision and AI to merge digital and physical experiences, this project is a simple “hosting platform” for handwritten HTML code. Users can upload a photograph of their HTML, and the app converts the image into valid HTML, and hosts it as a web page using a selection of multi-modal AI models,

or OCR tools.

A Blog Post With Every HTML Element

patrickweaver.net/blog/a-blog-post-with-every-html-element

Inspired by learning more about web accessibility, and a desire to explore implementing features with HTML instead of JS, this became a research project about HTML, where, to use every element in the post, I had to learn about their semantics and implementation.

Record Player

github.com/patrickweaver/record-player

A computer vision enabled app that combines the Google Vision and Spotify APIs to identify albums from a photo of an album cover. "New App Is Basically Shazam for Album Covers" - Pitchfork

SKILLS

Technology & Frameworks:

- Current expertise: TypeScript, JavaScript, Node.js, React, Postgresql, Jest, Testing Library, HTML, CSS, SQL, Git, Claude Code, Cursor
- Past experience: Vue.js, Next.js, Ruby on Rails, Python, Django, Docker, MySQL, Golang, Swift, SwiftUI, SQLite

EDUCATION

Recurse Center

Fall 2020

New York, NY (Remote)

Participated in a 12 week batch and focused on building a real-time map of the NYC subway system.

University of California, Santa Cruz

2008

Santa Cruz, CA

Bachelor of Arts Degree

Double Major: Language Studies (Linguistics) and Modern Literature