

Ever since I was first introduced to basic HTML and CSS in high school I've been fascinated with how I can use software to solve problems that I have had throughout my life. For most of the last 10 years, either as a side hobby or my primary occupation, I have been working on creating some sort of software project that piqued my interest. Even while working in non-technical fields, whenever I encountered a problem that existing products couldn't solve, I would take it upon myself to build the solution.

Through reflecting on this pattern, it's become clear to me that building software products is a challenge that is fun to me, and something that I could do for the rest of my life. This has been the primary impetus for the career change that I am looking for and what has brought me here to apply to LEAP.

Here's some more information about some of the personal projects that I have built over the years.

## **StudyFlow**

Date: June 2024 - Ongoing

Role: Team Lead / Product Owner

[Github Link](#) | [Deployed Link](#)

### **Problem:**

As an avid self-learner, specifically with a software engineering focus, I often get overwhelmed by the sheer volume of resources that are available to learn new skills. I've found myself 50+ tabs deep into certain topics that I never end up actually returning to. When selecting the capstone project that my group was going to work on as a part of the Justice Through Code software engineering intensive, we decided to tackle this problem.

### **Solution:**

Our solution was StudyFlow. Studyflow is a full stack web application that allows users to create a Kanban board that is tailored to efficiently manage and organize resources used for self studying. The platform was built using React/TypeScript for the frontend and Flask/PostgreSQL for the backend. There is also an ability to generate an AI studytrack that uses LLMs to break down chosen topics into manageable pieces and recommends high-quality resources to explain each of the subtopics.

### **Results:**

As the team lead & one of the primary developers, I led our team through multiple coding sprints, transforming a rough prototype into a fully functional MVP through hundreds of code commits on GitHub. We've received positive feedback from users for its simplicity and effectiveness in improving study organization. The application is continuing to evolve as we undergo user testing. We have an ongoing feature roadmap based on the feedback received.

## **CoinSignals.Trade**

Date: 2019 - 2020

Role: Founder

[Link](#) (redirects to company that acquired)

**Problem:**

At the time when this app was created there was no easy way for cryptocurrency traders to create technical analysis charts for smaller market cap cryptocurrencies. The primary crypto charting platform at the time, TradingView, only allowed charts for more established coins. This was a big problem for me in the work that I did as well for many people in the same space.

**Solution:**

Initially, as a technology that I could use for myself, I contracted two developers to create a simple web application that integrated the comprehensive cryptocurrency historical price data from CoinMarketCap with the technical analysis charting tools in TradingView's API. This allowed me to create technical analysis charts for any cryptocurrency listed on CoinMarketCap. I managed the development process with the outsourced developers and created a fully functional web application.

**Results:**

After seeing how valuable the platform was for me I decided to release the platform to my network. The web app quickly gained traction, reaching over 35,000 weekly active users without any marketing other than word of mouth. Despite not being actively monetized, the platform was successfully acquired by a similar platform CoinTrader for the user base and API.

## **Playbook App**

Date: 2016 - 2018

Role: Technical CoFounder

[Link](#) (Link to product hunt release. App isn't live anymore)

**Problem:**

I was very interested in reading startup & entrepreneurship blogs, but found it very difficult to keep up with email newsletters inside my cluttered inbox. I wanted a simple way to keep up to date with the authors that I wanted to read in a less cluttered channel & an advertisement free interface to read their posts.

**Solution:**

My friend and I created Playbook, a mobile app using Swift and Firebase, that aggregates RSS feeds from entrepreneurship blogs into a single, user-friendly platform. The app provided a streamlined reading experience, helping users stay informed without the hassle of signing up to an email list. Creating this application required months of self study of iOS development because I had no prior programming experience outside of basic HTML & CSS.

**Results:**

The app was launched on Product Hunt and became the #2 product of the day. We got some really great user feedback in which we continued to iterate on. In conjunction with ongoing product development we implemented some basic growth hacking methods and grew a small but sticky user base with daily engagement in our platform. We eventually ran out of steam and pivoted to other ventures.