

# Alex Saltstein

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## WORK EXPERIENCE

**Art Blocks**, Remote

January 2022 - Present

### Core Software Engineer

- Lead a team of engineers to rebuild the production website while maintaining legacy functionality with 0 downtime in same repo
- Decreased API requests by 98% by switching to websockets from polling, optimizing a critical data pipeline
- Increased design collaboration efficiency 30% by creating a reusable design system in **Figma** and **Tailwind** with product designers
- Increased SEO site health from 60% to 85%+ according to **Semrush**, improving visibility and search ranking
- Developed and maintained five **Next.js** web applications with **Tailwind** styling and a **Hasura GraphQL** backend
- Collaborated with artists to launch sites featuring live auctions and physical product sales using Shopify and the blockchain
- Designed and implemented end to end CMS using **Strapi**, enabling business users to post content directly to the **Next.js** web app
- Defined standards for multiple consuming applications by creating an analytics tracking and a design configuration shared package within a **Turborepo** (monorepo)

**Forkist**, Hoboken, NJ

December 2019 - December 2021

### Software Engineer

- Reduced image loading times from over 30 seconds to under 1 second by implementing image compression across the app
- Optimized cloud storage by creating database management scripts in **Node.js** utilizing the Google Storage API, reducing storage size by more than 40x without downtime
- Developed reusable components in **React** and **React Native**, focusing on scalability and maintainability to support future feature growth.
- Collaborated with team of engineers to create a company website with **Node.js**, **Next.js**, **React**, **Redux**, hosted on **GCP**

## PROJECT EXPERIENCE

**PartyPic**, Personal

September 2023

- Created **React Native Expo** mobile application with phone login, self hosted **Hasura GraphQL** backend, and multiple **AWS Lambda** API routes all within a monorepo
- Implemented deep linking capabilities for 6 digit party code system, reducing user onboarding time to under 30 seconds
- Collaborated with partner to create a monorepo with automated **CI/CD** pipeline for linting, building, and deploying

**Hudson Happs**, Personal

July 2022

- Rewrote **Javascript React** web app to **Typescript Next.js** with **Tailwind** and **MongoDB** backend, improving SEO and load time
- Eliminated costs related to location tracking by using a geocoding API to store approximate coordinates by address lookup
- Implemented **Typescript OCR** system to read text from images to prepopulate input forms
- Utilized on demand route revalidation to instantly refresh data as it was updated, while maintaining **SSG**

**Movier**, Personal

March 2021

- Created **React Native** mobile application with Airbnb linting standards and component based design best practices
- Built a scalable backend API using **Node.js** with JWT authentication hosted on **Google Cloud App Engine**
- Automated data population by building a Python web scraper to create a **MongoDB** database of categorized TV & movies

## EDUCATION

**Stevens Institute of Technology** | Hoboken, NJ

Master of Science in Software Engineering | **GPA: 3.97**

December 2021

Bachelor of Science in Computer Science with High Honors | **GPA: 3.84**

May 2021

**Awards:** Edwin A. Stevens Scholarship, Dean's List, Computer Science Honor Society

**Relevant Coursework:** Data Structures, Algorithms, Web Programming I & II, Database Management Systems, Concurrent Programming, Principles of Programming Languages, Software Cost Estimation & Metrics, Deep Learning, Intermediate Statistics

**Activities:** Phi Sigma Kappa Fraternity - Treasurer, Upsilon Pi Epsilon, JP Morgan Chase Code for Good Hackathon, Skiing

## SKILLS

**Programming Languages:** Javascript, Python, Java, Typescript, GraphQL, PostgreSQL, CSS, Swift, Bash, C, C++, Erlang, Ocaml, Scheme, SQL, HTML

**Frameworks/Libraries:** React, Next.js, React Native, Node.js, Tailwind, Expo, Preact

**Tools/Technologies:** AWS, Hasura, Figma, Git, MongoDB, Google Cloud, Redis, Semrush, Strapi, Turborepo, Mixpanel