

Ankur Boyed

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Technical Skills

Languages: Python, JavaScript, C++, Arduino, Java

Technologies: React.js, Redux, Apollo GraphQL, Next.js, Three.js, Chakra UI, Material UI, MongoDB, SQL, Node.js, GraphQL, Django

Work Experience

1Bitcoin – Full Stack Software Developer · May 2022 – Present

- 1Bitcoin is a Canadian Bitcoin exchange platform with over 300 users. It exposes Canadians to the full financial capabilities of cryptocurrency, such as Bitcoin loans, trading and cloud mining.
- Spearheaded the development of the company's V2 web app - a full stack trading platform using Next.js, react-query, Chakra UI, Typescript, Postgres and Redis (Launching February 17th, 2023)
- Built a secure JWT-based authentication flow for administrators to access user data and used NextAuth.js to create a seamless authentication system for users.
- Implemented a front-to-back KYC onboarding process using the CognitoHQ KYC webhook integration.
- Built the trading features of the site, allowing users to deposit/withdraw CAD and BTC, and perform trade actions.
- Wrote frontend and backend tests, and instrumented the app to detect errors.

Seeko – Founding Engineer · Jan 2021 – March 2022

- Seeko is a sponsorship marketplace that makes it easy for writers to monetize their articles by recommending sponsorship opportunities through a Grammarly-like chrome extension (backed by [Next 36](#) and [BDC Capital](#))
- Designed and built a new product ([full stack web app](#) and [chrome extension](#)) **used by 34 weekly active writers** using Figma, React + Redux, Apollo GraphQL, Node.js, Chakra UI, Typescript, Postgres and Redis
- Built a **semantic search API** to query unstructured data with text embeddings generated by OpenAI's GPT-3
- Built partnerships and **API integrations with Udemy, EdX, Skillshare, FlexOffers** and **facilitated 100+ affiliate sales**

Makerstop – Founder and Frontend Developer · September 2020 – Jan 2021

- Makerstop was a 3D printing service turned SaaS app that could provide automatic 3D print quotes. It is now defunct
- Designed and built the **frontend** for our custom **3D print quoter** using React.js, Redux, and Material UI
- Built a **custom WebGL 3D file renderer** using React and Three.js that allowed for user interactions (e.g. panning and orbiting).

Projects

Tricopter/Blimp – Payload-dropping drone · Sep 2018 – Jun 2019

A fully custom payload dropping drone: **4th place prize at Destination Imagination International Competition 2018-2019**

- V1: Designed and built a fully custom **helium-based blimp capable of dropping payloads** up to 15g using Arduino and Fusion 360. The design won 2nd place at the regional Destination Imagination technical competition.
- V2: For the international competition, we transitioned our design to a **fully custom tricopter with a separate yaw-motor** capable of dropping payloads up to 250g.

Dancing Lights – Custom Nanoleaf Clone · May 2021

A light panel ([Nanoleaf](#)) clone capable of bouncing to the beat of music. It uses a WS2811 LED strip and is fully 3D printed.

- V1: Used a Raspberry Pi and implemented fast-Fourier-transforms in C to make the LED strip change it's brightness based on the amplitude of bass frequencies. Had a latency of ~1s
- V2: Rebuilt in C using an Arduino to achieve a latency of ~50μs and used the MSGEQ7 sensor to detect bass frequencies.