
Christopher Bathgate

Software Engineer

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Experienced Web Software Developer with expertise in building beautiful interactive user interfaces, e-commerce implementations, backend services, analytics monitoring, and internal tooling. Proficient in various languages, libraries, frameworks and meta-frameworks including but not limited to Javascript/Typescript, CSS/SASS/Tailwind/CSS-in-JS, MUI, Shadcn, Redux, Redux Toolkit, React Context API, XState, RxJS, React, Svelte, EmberJs, Angular and Svelte. Additionally I have experience in building backend services using TRPC, Prisma, Amazon Cognito, Postgress SQL, Supabase, Astro, Vercel, NextJS, SvelteKit, Electrode and ExpressJS. Strong interpersonal skills and a drive to learn the latest cutting edge development tools and procedures.

EXPERIENCE

Localised, Toronto - *Software Engineer*

MAY 2021 - DEC 2024

- Developed and maintained an e-commerce website builder platform that facilitated online stores for clients like American Eagle, Urban Outfitters, Anthropology, Juicy Culture, Veronica Beard and Lilly And Bean among others.
- Constructed a templating language for custom websites and built layout and styling primitives, banner videos, product images, product reviews, product listing / filtering, product search, product listing banners, product trays, SEO, marketing pages, product SKU selection, product image carousels, user designed product customization, Backend For Frontend (BFF) APIs, email signup modal, promotion indicators, price formatting, brand navigation, mobile and desktop route navigations, country / language detection and switching, user accounts, analytics tracking, feature flags, localized translations and more.
- Worked on the checkout flow end to end from adding to cart, managing and editing the cart, reviewing the cart, express checkout methods like google and apple pay, geospecific address forms, computing pricing and taxes, international payment methods, payment

forms, payment processing using Adyen, checkout analytics and order history.

- Built internal tooling for product merchandising, template compilation, and website content management.

Walmart Labs, Mississauga - *Software Engineer*

MAY 2020 - APRIL 2021

- Iterated on the Product Display Page that supported the entirety of Walmart's Canadian catalog and grocery offerings that generated millions of dollars of revenue per day.
- Worked with Electrode, a SSR compatible, monorepo architecture that crossed web and mobile platforms. Took the lead in fullstack initiatives like “multi-save” bundle selection, product shipping estimation and selection, google SEO as well as accessibility optimization and UI primitives such as modal stacking, product cards and listing, buttons, product badging and product ratings.
- I took part in the rotating role of production engineer where, for a given sprint, I was solely responsible for deploying the product page micro-application to staging, canary and production. Used advanced infrastructure monitoring tools such as Dynatrace and Splunk for 500 and 400 errors, request rate, response times and data center node health (CPU usage, disk latency, node.js event loop latency, etc). Took part in PS5 and XBOX Series X sales events monitoring live data and adjusted production configuration to handle large amounts of traffic.
- Worked closely with QA in building end to end testing using puppeteer alongside the usual unit testing.

Soapbox, Toronto - *Software Engineer*

MAY 2019 - MARCH 2020

- Worked on an agenda management tool with projects like integrating user calendars, dealing with multimedia uploads and previewing, Microsoft 365 Word and Excel support, pro conversion signup experience and implementing roles and permissions for paid features.
- Took part in two internal hack-a-thons winning one of them for integrating Zoom's api into the application.
- The company was data-driven with the whole team involved in understanding the metrics and experiences of its users from user journey analytics to conversion rates.

Flybits, Toronto - *Software Engineer*

AUGUST 2017 - MAY 2019

- Worked on a financial marketing tool for banks that facilitates promotions, account qualifications, and alerts.

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- Built CRUD features for assembling campaigns as well as search, infinite scroll pages and a rule building interface that edited the first order logic of a trigger that, when its criteria evaluated to true, was mapped to a certain outcome like an email, piece of website content, or webhook.
 - Worked on a vast data migration project using GO lang
 - Entered into multiple external hackathons as a company, one of them in Boston, Massachusetts, as well as attended EmberConf in Portland, Oregon.

EDUCATION

University Of Toronto, Toronto - *B.Sc Honors*

SEPTEMBER 2012 - MAY 2017

- **Software Engineering:** built WebRTC file transfer web app in Angular.
- **Human Computer Interaction:** made a smart watch app switcher based on location demo in JQuery.
- **Low Level Programming:** constructed multi-line marker morse code printer controlled in C.
- **Image Processing:** Green Screen image keyer in python.

PROJECTS

Marshall X - <https://marshall-x.vercel.app/template/test/editor>

- A JSON schema editor where numbers, text and groups can be added from the bottom or moved around and configured.
- NextJS, Tailwind, Atlassian Pragmatic Drag And Drop, TRPC, Prisma, Vercel Hosting, Vercel Postgress

Parkgate IO - <https://www.parkgate.io>

- Masonry grid algorithm that approximates the NP Hard Rectangle Packing Problem.
- Portfolio content coming soon!
- NextJS, SASS, Vercel (previously used Angular and Heroku)

EthTorrent - <https://github.com/C-4PO/EthTorrent>

- A file torrenting application which incentivises legal seeding of files by offering crypto bounties
- Won 5k at EthConf at Harvard University
- Angular, Solidity

Archipelago Club - <https://github.com/C-4PO/achipelago-club>

- Language Learning application that uses animated spaced repetition flash cards based off of ChatGPT generated stories with listening and translation evaluations for Spanish.
- SveltKit, XState state machines, ChatGPT API, Supabase Postgres / User Accounts.
- Request A Demo!