

Jay Bhagat

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SKILLS

Front-end: React, Redux, Jest, Next.js, HTML/CSS

Back-end: Node.js, Nest.js, GraphQL, Firebase Functions/Firestore (GCP), MongoDB

Tools: Git, Heroku, Vercel, CircleCI, Docker, JIRA, Maven/Gradle, VIM, Linux

EDUCATION & AWARDS

University of Waterloo | Bachelor's in Computer Science, Honours (**AVG 90.2%**) (2019 - 2024)

- Term Distinction (all terms), NSERC Undergraduate Student Research Award, President's Scholarship

EXPERIENCE

Software Engineering Intern | Newfront Inc.

San Francisco, CA (May 2022 - Aug 2022)

- Built new API routes with Nest.js (Typescript) using **controllers, modules, and providers** to add new efficient features and **TypeORM entities** to the **large microservice network** at Newfront.
- Added new features to Newfront's in-house **DSL** (domain specific language) schemas to **dynamically and recursively build** components for 50+ (and increasing) data models.
- Created a **trRPC router** acting as a **BFF layer** with **server-less functions** as mutations and queries to ensure seamless user interaction with **type-safe API calls** for a Next.js app. Shipped with Vercel.
- Independently built the backend and frontend for a feature that had **extensive reach** throughout the entire company with **collaborative efforts from design and product**. Applied many different React design patterns.

Full-Stack Developing Intern | Questrade Inc.

Toronto, ON (Sept. 2021 - Dec. 2021)

- Implemented **reusable** and **animated** React Native components/user flows, improving code **modularity** for a mobile application (with **100,000+** users).
- Utilized **Redux** to store back-end responses and declutter **state management**, increasing **efficiency by 212%**.
- Created **API routes** in a .NET Core backend for new requests, and modifying an **event-based API using GCP's PubSub**.
- Took initiative to independently design and build an entire **end-to-end feature** that was essential to launch.

Open-Source Software Developer | BlackBerry Ltd.

Waterloo, ON (Jan. 2021 - Apr. 2021)

- Developed Python scripts to **automate team tasks** and **maximize scalability**.
- Created Gradle/Maven plugins in Java that **doubled efficiency by transferring build information** to analysts, and integrated this into BlackBerry's CI/CD pipeline.
- Improved the team's REST APIs by implementing asynchronous programming and multi-threading to **increase response speed when querying data**.

Software Developer | Cynorix Inc.

Waterloo, ON (May 2020 - Aug. 2020)

- Independently created a user password server and **implemented API routes** with new user flows for a **Windows client**.
- Built a Google Drive extension to **allow encrypted file sharing**, complete with a **secure back-end** using Node.js, Firebase, and Google Drive APIs.

PROJECTS

- **HeadsUpGuys (UW Blueprint):** Built a **user-first** web application that allows admin to create new mental health tools for users, along with the user dashboard using **Next.js for a non-profit**.
- **Catch:** Created the **back-end** on Firebase for an AR mobile game. (**Challenge Winner HackThe6ix 2020**)