




JAY BHAGAT

 jaybhagat.github.io

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SKILLS

Languages: TypeScript/JavaScript, Kotlin, C#, C++, Java

Other: HTML, CSS, AWS, Docker, BigQuery

Frontend: React, Next.js, Redux, JavaFX, jQuery

Backend: Node.js, Nest.js, GraphQL, MongoDB

EDUCATION

University of Waterloo: Bachelor in Computer Science (BCS), Honours, Co-op (**APRIL 2024**)

Awards: Term Distinction (89.2% Average), NSERC USRA, President's Scholarship of Distinction

EXPERIENCE

NEWFRONT

SOFTWARE ENGINEER, INTERN

May 2022 - Aug 2022 | San Francisco, California

- Independently built an end-to-end feature with **REACT**, **NEST.JS**, **TYPEORM** database (SQL) entities to allow users to view a timeline of their coverage, ensuring a **SCALABLE AND ROBUST** data visualization tool.
- Exceeded expectations by completing the first milestone of the **DATA MIGRATION** in addition to the project.
- Built a new tRPC router for a **BFF** architecture using **SERVER-LESS FUNCTIONS** (Vercel) for mutations and queries with typesafe API calls. Decreased the number of API calls by ~250%.
- Added new **DYNAMIC** React components to Newfront's in-house **DSL** to handle 50+ different data models.
- Drove the execution of the LOC Lineage project by spearheading meetings with engineers and **CROSS FUNCTIONAL PARTNERS** (PM, Design, Data Scientist), leading it to a **SUCCESSFUL LAUNCH (>80% DAILY USAGE)**.

QUESTRADE

FULL-STACK SOFTWARE ENGINEER, INTERN

Sept 2021 - Dec 2021 | Toronto, Ontario

- Utilized **REDUX** for app-wide state management, improving the UX and doubling the efficiency of the application.
- Created an entire **REACT NATIVE** and **.NET CORE/MONGODB** feature to allow users to manage/delete accounts.
- Built reusable **ANIMATED** React Native components for a mobile application (500,000+ users) for **MODULAR CODE**.
- Identified opportunities to **IMPROVE PRODUCT FEATURES** by pitching product changes to engineers and designers.

BLACKBERRY

SOFTWARE DEVELOPER, INTERN

Jan 2021 - Apr 2021 | Waterloo, Ontario

- Developed Python scripts to **AUTOMATE TASKS** and transfer information to analysts, maximizing scalability.
- Integrated custom-built Gradle + Maven plugins to CI/CD pipeline that **DOUBLED EFFICIENCY**, transferring build information to analysts.
- Implemented **ASYNCHRONOUS FUNCTIONS** to make API calls, decreasing run-time by a factor of 2.03.

CYNORIX

SOFTWARE ENGINEER, INTERN

May 2020 - Aug 2020 | Waterloo, Ontario

- Independently created a **PASSWORD STORAGE SERVER** and implemented API routes using Node.js with new user flows for a Windows client (C#).
- Built a Google Drive extension to allow **ENCRYPTED FILE SHARING**, complete with back-end using Node.js, Firebase, and Google APIs.

PROJECTS

HeadsUpGuys: Web app (Next.js/React.js/Node.js) for a **NONPROFIT** to create mental-health modules for clients complete with **AUTHENTICATION, MARKDOWN EDITOR, AND GAMIFICATION**. Check it out!

Global Catch (HackThe6ix): Built the back-end using Firebase + Javascript for a Unity app for users to play catch globally in separate rooms. **CHALLENGE WINNER**.