

Jay Bhagat

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EDUCATION

University of Waterloo

Bachelor of Computer Science, Honours, Co-op (89.2%)

Sept. 2019 – Apr. 2024

Waterloo, ON, Canada

EXPERIENCE

Software Engineer, Intern

Newfront Inc.

May 2022 – Aug. 2022

San Francisco, CA

- Independently built an end-to-end feature with React, Nest.js, TypeORM database (SQL) entities to show users a **robust/scalable** timeline of their coverage.
- Exceeded expectations** by completing data migration Milestone 1 along with the project.
- Built a new tRPC router for a BFF architecture using **server-less functions** (Vercel) for mutations/queries with **typesafe API calls**. Decreased the number of API calls by **250%**.
- Drove the execution of the LOC Lineage project by **spearheading meetings** with engineers and cross functional partners (PM, design, data), leading it to a successful launch (**>80% usage**)

Fullstack Developer, Intern

Questrade Inc.

Sept. 2021 – Dec. 2021

Toronto, ON, Canada

- Utilized Redux for **app-wide state** management, improving UX and **doubling application efficiency**.
- Created an **React Native, .NETCore, MongoDB feature** to allow users to delete accounts.
- Built **reusable, animated** React Native components for a mobile application (**500,000+ users**), prioritizing modular code.
- Identified product improvements by **pitching design changes** to engineers and designers.

Software Developer, Intern

Blackberry Ltd.

Jan. 2021 – Apr. 2021

Waterloo, ON, Canada

- Developed Python scripts to automate tasks and maximize efficiency, **reducing labour by 25%**.
- 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 REST APIs by implementing asynchronous programming to **double response speed** when querying.

Software Engineer, Intern

Cynorix Inc.

May 2020 – Aug. 2020

Waterloo, ON, Canada

- Independently created a password storage server and **created API routes** with new user flows for a Windows client.
- Built a Google Drive extension to allow encrypted **file sharing**, complete with a back-end using Node.js, Firebase, and GCP.
- Utilized Emscripten to compile C++ code to WebAssembly that runs on Javascript **394% faster**.

PROJECTS

HeadsUpGuys | *React, Next, Chakra UI*

Jan. 2022 – Apr. 2022

- Webapp for a non-profit to create mental-health modules for clients complete with authentication, markdown editor, and gamification.

TrackIt | *Kotlin, Spring Boot, JavaFX, Gitlab CI, Git*

Sept. 2022 – Present

- Desktop application for users to keep track of their tasks by adding priorities, due dates, groups, sorting tasks by priority or manually sorting tasks, copy-paste-cut, and undo-redo (hotkeys).

TECHNICAL SKILLS

Languages: TypeScript/JavaScript, Java, Python, C/C++, SQL, Kotlin, C#, HTML/CSS

Frameworks: React.js, Next.js, Node.js, Nest.js, Express.js, Selenium, Redux, JavaFX, Flask, Jest, Django

Developer Tools: Git, Docker, CircleCI, Google Cloud Platform, AWS