

James LOPEZ

Software Developer

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TECHNICAL SKILLS

Technologies Typescript, React-Native, React, React + Vite, Tailwind, CSS, Astro
Databases Postgres, MariaDB, NoSQL
DevOps Jenkins, ArgoCD, Git, Jira, Git

WORK EXPERIENCE

2024 - Present Software Developer, OICR, TORONTO, ONTARIO

- > Led end-to-end frontend system architecture for the DACO application portal, driving upfront design strategy and technical planning.
- > Engineered optimized, multi-stage Docker containerization strategies within monorepo environments and standardizing build processes.
- > Directed technical interview panels and mentored junior developers during co-op hiring cycles, assessing candidates on system design principles, coding standards, and collaborative capacity.
- > Streamlined Jenkins CI/CD pipelines for new applications, reducing deployment failures and improving overall pipeline reliability.

TypeScript React Vite Node.js System Architecture REST APIs Jenkins CI/CD Technical Leadership

2022 - 2023 Full Stack Developer, Clear Com Media, WINDSOR, ONTARIO

- > Demonstrated versatility by contributing to the development of both mobile and web applications.
- > Pushed for industry standard development practices to ensure precise estimation of project completion.
- > Collaborated with developers, designers, and project management teams to fulfill project requirements.

Next.js React Native Expo Node.js REST APIs Figma Project Planning DevOps

2021-2022 Application Developer, Evenica, BURLINGTON, ONTARIO

- > Worked full-stack on three different web applications.
- > Developed GUI features utilizing TypeScript and React.
- > Built APIs with GraphQL and integrated changes to the front-end using Apollo Client.

React Node.js TypeScript GraphQL Problem Solving Relationship Building Teamwork Clean Code Practices

EDUCATION

2015 - 2019 Bachelor's of Computer Science, UNIVERSITY OF WINDSOR

- > Studied fundamentals of Data Structures, Algorithms, Complexity Analysis, Software Design Principles and Computer Architecture.

LATEST PROJECTS

PAN-CANADIAN GENOME LIBRARY DACO

 github.com/Pan-Canadian-Genome-Library

Lead engineer on DACO, a platform enabling clinical researchers to request access to federated study data shared across research organizations throughout Canada. Worked on other related projects such as clinical-submission, dictionary manager and data-dictionary.

TypeScript React + Vite Antd Nodejs Express REST Figma

OVERTURE LYRIC

 [github.com/https://github.com/overture-stack/lyric](https://github.com/overture-stack/lyric)

Foundational and dynamic submission API system for clinical researchers to contribute study-level genome sequencing datasets

TypeScript NodeJS REST

PAN-CANADIAN GENOME LIBRARY CLINICAL SUBMISSION

 github.com/Pan-Canadian-Genome-Library/clinical-submission

Enhanced Overture/Lyric submission API to meet PCGL functional specs, integrating custom auth flows and optimizing batch data processing.

TypeScript NodeJS REST Authentication and Authorization Drizzle