

Results-oriented software developer with a track record of driving innovation, managing multiple projects from inception to completion, and a strong commitment to community impact.

## EDUCATION

### PG Certificate, IT Solutions – Dean's Honors (89.8%)

Jan 2022 - Aug

2023 Humber College, Toronto ON

### Bachelor's Degree in Computer Science & IT

Oct 2011 - Dec 2015

St. Xavier's College, Nepal

## SKILLS

Languages:	JAVA, JavaScript, TypeScript, SQL, HTML, CSS
Tools & Frameworks:	Spring (Boot, MVC, Data JPA, Security, AOP), J2EE, NodeJS, ExpressJS, ReactJS, AngularJS, JUnit
Others:	REST API, Microservices, Maven, AWS, GIT, JWT, MongoDB, Material UI, Tailwind CSS

## PROFESSIONAL EXPERIENCE

### Research Associate

July 2023 - Present

Sir Sandford Fleming College, Toronto, ON

- Designed a web application using **ReactJS** and **Firebase**, interfacing with **generative AI** model APIs to modify images based on prompts.

### Team Lead, Full Stack Developer

May 2023 - Aug 2023

Holland Bloorview Kids Rehab – Bloorview Research Institute, Toronto, ON

- Led a team of 3 developers in designing a robust web application utilizing microservices architecture with **MongoDB**, **ExpressJS**, **ReactJS**, **NodeJS**, and **JWT**, incorporating features such as surveys, dashboards, and user authentication, enabling accurate measurement of patient progress over time.

### Innovation Business Partner, NLAB

Mar 2021 - Jan 2022

World Vision International

- Designed and scaled 3 innovative solutions – blockchain-based digital transaction platform (**reach of 100,000 plus people**), interactive gamified mobile application, and educational online marketplace (**reach of 50,000 plus children**) by liaising with global teams, external partners, and consultants that resulted in disaster risk reduction, enhanced cash programs during disasters and improved book access to the community.

### Technical Support Assistant, NLAB

Nov 2020 - Feb 2021

World Vision International

- Supported to maintain and scale the digital solutions of the lab that supported the most vulnerable communities in areas like education, disaster recovery, health and many more.

### IT (Assistant, Support & Trainee), ICT

Oct 2018 - Oct 2020

World Vision International

- Designed, developed, and managed the organization's intranet that led to a substantial increase (**100%**) in staff engagement and productivity.
- Accomplished data-driven decision-making for the organization's business processes by designing and developing 4 PowerBI dashboards.
- Provided timely, proactive, and efficient IT services (support, orientation & training) to about **300+ staff** improving the rating of the department and the business process in general.

## OTHER INVOLVEMENTS

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- Volunteer Frontend Developer at 'The DG Sentinel' Apr 2023 - Present
- Humber College's Employee Engagement Event Organizer ([event portal](#) design) Mar 2023
- Volunteer Computer Lecturer at St. Paul Edu. Center, Nepal July 2016 – Feb 2020

## PROJECTS

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(The projects can be accessed at  <https://simul-portfolio.vercel.app/>)

### Finance Management Web App – Budget Buddy

- A full stack web application which provides features such as personal expense and income tracking, collaborative group finance management and user authentication.
- Spring Boot, REST APIs, ReactJS, MongoDB, Spring Security

### E-commerce platform – Petal Express

- A specialized e-commerce platform delivers various flowers, offering authentication, product information, order, and cart management features.
- Two frontends – one in ReactJS and the other in AngularJS communicating with a single backend in ExpressJS and NodeJS
- ReactJS, AngularJS, NodeJS, ExpressJS, MongoDB, JWT

### Pet Management App - PawfectPal

- A JAVA Spring boot pet management application that allows the user to manage pet information (CRUD).
- Spring MVC, Tomcat server, H2 db, Spring JPA, Lombok, command line runner, Thymeleaf (form binding, fragments, conditionals), and bootstrap.

### Book-Library-XML-REST-API

- XML REST API Spring Boot Application that provides different API endpoints to manage books in H2 in memory database.
- Java Spring Boot, Spring Data JPA, XML, REST APIs, Maven, Spring Dev Tools, Jackson, Jaxb, H2 in-memory database, Lombok, Postman

### Restaurant App

- A restaurant web application that performs CRUD operations on different restaurant entities.
- Java Spring Boot, Spring Data JPA, REST APIs, Maven, Spring Dev Tools, H2 in-memory database, Lombok, Postman, Thymeleaf, Bootstrap

### Friend's Info Management App

- A J2EE Web app to create, delete, update and view friend's information.
- Java Enterprise Edition, MVC Framework, MYSQL Database

### User Management App

- Customer record, product, and staff management applications that read-write to text/binary files.
- JAVA, JDBC, SQL

### Restaurant App

- A web app about restaurants that fetches and filter restaurant records from MongoDB and lists them.
- NodeJS, ExpressJS, Mongoose, MongoDB Atlas, Thunder Client

### Ontario RRSP & Tax Calculation Mobile App

- An android application that calculates RRSP & TAX info for the year 2022 with data validation.
- JAVA, XML

### Android Cooking App

- A cooking mobile app with recipe listing and details, account management, filter & recommendation features.
- JAVA (intent, shared preferences), XML, JSON