

SIMUL BISTA

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EXPERIENCE

Team Lead

NKM Dolls

Sep 2023 – Present

Toronto, ON

- Led the design, development and deployment of an e-commerce platform for Natural Kids Movement, using **TypeScript**, Express.js, and React, mentoring 4 developers and collaborating with the product owners and the design team.
- Implemented **AWS Cognito** for authentication and designed a **CI/CD** pipeline using **GitHub Actions** to streamline deployment to **AWS EC2** instance and ensure code quality.

Freelance Software Developer

Calix and Yuvoice

Apr 2024 - Present

Toronto, ON

- Led the backend design and development for Calix, an e-commerce platform selling calisthenics equipment and training programs, while implementing the **DTO pattern with MapStruct** in the Spring REST API and managing complex entity associations using Spring JPA.
- Boosted code reliability by utilizing the **TDD approach** implementing unit tests with **JUnit** and **Mockito**, and streamlined deployment through **Docker**, resulting in a scalable and easily deployable API.
- Led the team of 5 software developers at Yuvoice, a civic engagement platform, architecting the solution while collaborating closely with the management, business analysts, and the UI/UX teams.
- Deployed the Typescript backend on an **AWS EC2 instance**, implementing authentication using **AWS Cognito** and content storage on **AWS S3**, and setting up a robust **CI/CD** pipeline using **GitHub actions**.

Professor – Web Application Development and Adaptive Web Design

Humber Polytechnic & Seneca Polytechnic

Jan 2024 - Present

Toronto, ON

- Instructed **over 300 students** across multiple semesters in various aspects of web application development and adaptive design.
- Designed and taught courses on enterprise application development, covering **Spring Boot**, REST API, **Microservices**, **SOLID principles**, TDD approach, Spring JPA, JDBC integration, Spring Security, HTML5, CSS, and JavaScript.

Team Lead and Full Stack Developer

Holland Bloorview Kids Rehab – Bloorview Research Institute

May 2023 - Aug 2023

Toronto, ON

- Led a team of 3 developers to design a service-oriented, responsive web application for patient progress tracking, achieving a **70% reduction in administrative workload** through automation and streamlined data submission and report generation.
- Implemented **MVC architecture and JWT authentication** using context API, storing JWT tokens in browser local storage, enabling clinician-specific patient record management and incorporating the record archive feature. (MongoDB, ExpressJS, ReactJS, NodeJS, and JWT)

Project Coordinator - Innovation and IT

World Vision International

Oct 2018 - Jan 2022

Nepal

- Led the design and scaling of **3 impactful digital solutions**: a blockchain-based digital transaction platform, an interactive gamified mobile application, and an educational online marketplace built using technologies like Django, ReactJS, Flutter, Spring Boot, and PHP.
- Collaborated with global engineering teams and partners to develop and deploy scalable, high-performance solutions, collectively impacting **over 150,000 users** with enhanced digital services.

PROJECTS

E-commerce platform – Petal Express (ReactJS, AngularJS, NodeJS, ExpressJS, MongoDB, JWT)

- Spearheaded the development of a flower delivery e-commerce platform using MVC architecture, while engineering the backend in **ExpressJS** and **NodeJS**, orchestrating its integration with 2 frontends—one in **ReactJS** and the other in **AngularJS**

TECHNICAL SKILLS

Languages

JAVA, JavaScript, TypeScript, Python, SQL, HTML, CSS

Libraries & Frameworks

Spring Boot, Spring REST, Spring JPA, Spring Security, NodeJS, ExpressJS, AngularJS, ReactJS

Additional

AWS, MongoDB, MySQL, Oracle PL/SQL, Docker, JUnit, Mockito, GIT, Swagger

EDUCATION

Graduate Certificate in IT Solutions, Humber College, Toronto ON (Dean's Honors)
Bachelor of Computer Science, St. Xavier's College

Jan 2022 - Aug 2023
Oct 2011 - Dec 2015