

Simul Bista

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EXPERIENCE

Team Lead – Software Developer

NKM Dolls

Sep 2024 - Present

Toronto, Canada

- Designed, developed, and deployed an e-commerce platform for Natural Kids Movement, using TypeScript, Express.js, and React, **mentoring a team of 4 developers** while collaborating with the product owners and the UI/UX designers.
- Ensured high performance and scalability by implementing **AWS Cognito** for authentication and setting up **CI/CD** pipelines with **GitHub Actions** for automated deployment on **AWS EC2**.

Software Developer

Calix and Yuvoice

Apr 2024 - Present

Toronto, Canada

- Led the cross-functional team of 8 developers** at **Yuvoice**, a civic engagement platform, architecting the solution while collaborating closely with the business analysts, stakeholders and the UI/UX designers to align development with business goals.
- Deployed the Typescript backend on an **AWS EC2 instance** using **Fastify**, implementing authentication using **AWS Cognito** and content storage on **AWS S3**, and setting up a robust automated **CI/CD** pipeline using **GitHub actions** improving DevOps efficiency.
- Implemented **Spring Boot REST APIs** for Calix, an e-commerce platform, optimizing **DTO patterns with MapStruct** and managing complex entity associations using Spring JPA.
- Applied **Test-Driven Development (TDD)** with **JUnit** and **Mockito**, improving code reliability, and containerized the backend with **Docker** for streamlined deployment.

Professor – Web Application Development and Adaptive Web Design

Humber Polytechnic & Seneca Polytechnic

Jan 2024 - Present

Toronto, Canada

- Guided over 400 students across multiple semesters in building real-world web applications, covering the full development lifecycle from design to deployment, with a focus on adaptive web design and modern development practices.
- Developed and delivered 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, Canada

- Led a team of 3 developers to architect 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

Lalitpur, Nepal

- Led the design and scaling of **3 large-scale 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.
- Managed cross-functional teams across multiple regions, collaborating with global engineering teams and stakeholders 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, C#, SQL, HTML, CSS

Libraries & Frameworks

Spring Boot, Spring REST, Spring JPA, Spring Security, NodeJS, ExpressJS, Fastify, .NET, AngularJS, ReactJS

Cloud Technologies

AWS (EC2, S3, Cognito, IAM), GitHub Actions, Docker

Additional

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

EDUCATION

Graduate Certificate in IT Solutions, Humber College, Toronto, Canada (Dean's Honors)

Jan 2022 - Aug 2023

Bachelor of Computer Science, Tribhuvan University, Kathmandu, Nepal

Oct 2011 - Dec 2015