Simul Bista

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EXPERIENCE

Team Lead – Software Developer   **Sep 2024 - Present**
NKM Dolls   *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   **Apr 2024 - Present**
Calix and Yuvoice   *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 Deployment (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   **Jan 2024 - Present**
Humber Polytechnic & Seneca Polytechnic   *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   **May 2023 - Aug 2023**
Holland Bloorview Kids Rehab – Bloorview Research Institute   *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   **Oct 2018 - Jan 2022**
World Vision International   *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