

SIMUL BISTA

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EXPERIENCE

Freelance Software Developer

Calix and Yuvoice

April 2024 - Present

Remote

- 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 setting up a robust **CI/CD** pipeline using **GitHub actions**.

Professor – Web Application Development and Adaptive Web Design

Humber College & Seneca Polytechnic

Jan 2024 - Present

Toronto, ON

- Instructed **over 100 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.

Research Associate

Sir Sandford Fleming College

Jul 2023 – Jan 2024

Toronto, ON

- Built a web application with **ReactJS** and **Firebase**, integrating **generative AI model APIs** for image modification and researching innovative tools to create a robust proof-of-concept project.

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

Finance Management App - Budget Buddy (JAVA, Spring Boot, Spring Security, ReactJS, MongoDB, Swagger)

- Led a team of 2 developers to develop a full-stack web application for personal finance management, while implementing 25+ **REST APIs** with MongoDB, a ReactJS front-end, and a **TDD approach** with **JUnit** and **Mockito** to ensure code reliability and adherence to SOLID principles.

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, 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