Simul Bista

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SUMMARY

- 7+ years designing and delivering digital solutions across nonprofit, health, education, e-commerce, social media, and finance sectors.
- 3 years building scalable web applications, cloud platforms, and AI-powered solutions.
- 2 years teaching web development, algorithms, and problem solving with modern practices.
- Passionate about leveraging emerging technologies: AI agents, cloud automation, full-stack development to solve real-world challenges.
- Committed to delivering digital solutions that make a lasting difference in people's lives and communities.

EXPERIENCE

Software Developer   **Sep 2024 - May 2025**
NKM Dolls   *Toronto, Canada*

- Designed, developed, and deployed an e-commerce platform for Natural Kids Movement, using TypeScript, ExpressJS, and ReactJS, *mentoring a team of 4 developers* while collaborating with the product owners and the UI/UX designers.
- Addressed the challenge of building a scalable and secure e-commerce backend by optimizing APIs and implementing cloud-based authentication and storage, improving platform reliability and development efficiency.
- Deployed the Typescript backend on an *AWS EC2 instance* using *ExpressJS*, implementing authentication using *AWS Cognito* and content storage on *AWS S3,* and setting up a robust automated *CI/CD* pipeline using *GitHub Actions,* improving deployment efficiency.

Software Developer   **Apr 2024 - Apr 2025**
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.
- Tasked with rapidly delivering a functional prototype for Yuvoice, designed and developed the MVP backend to enable early user testing and feedback, accelerating product validation and guiding subsequent feature development.
- 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 deployment speed and reliability.

Professor   **Jan 2024 - Present**
Humber Polytechnic & Seneca Polytechnic   *Toronto, Canada*

- Guided over **500** 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 Web Application Development (Spring Boot, REST API, Microservices, Spring JPA, JDBC, Spring Security, TDD, SOLID principles), Algorithms & Problem Solving, and Web Programming (HTML, CSS, JavaScript), equipping students with practical skills across enterprise-grade applications, computational thinking, and modern web development.

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, addressing inefficient manual workflows by automating data submission, report generation, and record management, resulting in a **70% reduction** in administrative workload and improved clinician efficiency.
- 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*

- Solved internal stakeholders' challenges by leading the design and scaling of *3 impactful digital solutions*: a blockchain platform, a gamified mobile app, and an educational marketplace, collaborating with external developers from ideation to implementation.
- 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

AI Email Agent (Python, Google Gemini AI, Gmail API, Twilio, GitHub Actions, Pytest)

- Solved the challenge of managing cluttered Gmail inboxes by building an intelligent *email agent* that runs automatically once every day, classifies unread emails using *Gemini AI*, auto-sorts them into Gmail labels, and sends WhatsApp summaries via *Twilio*.
- Integrated Gemini AI with *JSON parsing and regex fallback*, primary inbox filtering, and *multi-category classification* (Jobs, Investments, Keep), ensuring accurate and reliable email organization.
- Engineered a *full CI/CD pipeline* with GitHub Actions, including unit and integration tests with Pytest, pre-deployment validation, secret verification, and production safety gates, ensuring fully automated, safe, and test-gated production deployments.

Client Booking Platform – Happy Balconies (HTML, CSS, Vanilla JS, Google Apps Script, Google Sheets, Google Maps API, Netlify)

- Developed a responsive web application for a professional balcony cleaning service, allowing customers to explore services, calculate quotes, and book appointments.
- Built a lightweight backend with *Google Apps Script* for *booking automation*, email notifications, and data storage in Google Sheets; integrated *Google Maps Autocomplete API* and deployed via Netlify with CI/CD.

Calix – Ecommerce Platform (Spring Boot, Docker, JPA, MapStruct, JUnit/Mockito)

- Designed and developed backend REST APIs for Calix, an e-commerce platform for calisthenics products and training programs, enabling efficient data management and seamless frontend integration.
- Built a scalable and resilient backend by implementing optimized *DTO patterns*, managing complex entity relationships, and applying *TDD* practices, improving reliability, maintainability, and accelerating development.
- Implemented *MapStruct* for DTO mapping, leveraged *Spring JPA* to manage entity relationships, and used *Junit*/*Mockito* and *Docker* for testing and deployment, resulting in a robust, maintainable, and easily deployable backend.

TECHNICAL SKILLS

Languages	Java, JavaScript, TypeScript, Python, SQL, HTML, CSS
Libraries & Frameworks	Spring Boot, Spring REST, Spring JPA, Spring Security, NodeJS, ExpressJS, Fastify, 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