

Simul Bista

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HIGHLIGHTS

- 7+ years designing and delivering digital solutions across nonprofit, telecom, health, education, e-commerce, and social media 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

Docsis DevOps Analyst

Rogers Communications

Oct 2024 - Present

Toronto, Canada

- Supported DOCSIS and IP engineering teams on major HFC network projects by automating customer migration workflows across nodes and CMTS devices, replacing time-consuming manual processes with reliable, **Python-based automation**.
- Replaced manual overnight workflows with Python-based automation and notebooks, achieving an over **85%** reduction in total processing time for HFC network change operations.
- Redesigned the automation project architecture to be modular and aligned with industry best practices, leveraging **Pandas, NumPy, Jinja**, and **TTP** to deliver **200%** faster configuration generation and eliminate 100% of manual configuration errors.

Software Developer

NKM Dolls

Sep 2024 - May 2025

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

Yuvoice

Apr 2024 - Apr 2025

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

Humber Polytechnic & Seneca Polytechnic

Jan 2024 - Present

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

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, 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).

- 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	Python, Java, JavaScript, TypeScript, SQL, HTML, CSS
Libraries & Frameworks	Pandas, Numpy, Spring Boot, Spring REST, Spring JPA, NodeJS, ExpressJS, Fastify, ReactJS, Jinja, TTP
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