

# Sarbagya Gho Shrestha

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Engineer eager to learn, grow, and build technology that makes a real difference. Interested in systems that connect people and purpose—from digital governance to embedded hardware. Always adapting, always improving.

## WORK EXPERIENCE (3.5+ YEARS)

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### Ninja Infosys (merged with ISRC)

Feb 2025 – Feb 2026

Tech Lead | Kathmandu, Nepal

- Leading technical architecture for Digital e-Palika platform serving 50+ municipalities, streamlining citizen services, revenue collection, and grievance handling.
- Architected the Integrated Content Management System (ICMS) powering 100+ government websites nationwide using microservices with Kafka and Kubernetes.
- Coordinating cross-functional teams and stakeholders to deliver governance solutions while maintaining system scalability and security.
- Tech: Next.js, NestJS, Kafka, Kubernetes, PostgreSQL, Docker, Redis, CI/CD

### Intensive Study and Research Center (ISRC)

Jan 2024 – Feb 2025

Full Stack Engineer & DevOps Lead | Kathmandu, Nepal

- Deployed digital profile systems for 10+ municipalities including Pokhara Metropolitan City in 4 months with a 2-person team, serving 100,000+ citizens.
- Built a Survey Management System with custom ODK Fetcher, processing 100,000+ survey responses with real-time analytics and live monitoring.
- Managed end-to-end DevOps pipelines (CI/CD, Docker, AWS EC2/S3, Jenkins) ensuring 99.9% uptime for resource-constrained regions.
- Trained 300+ local officials and enumerators in digital tools for sustainable civic digitization.
- Tech: Next.js, NestJS, tRPC, PostgreSQL, MongoDB, Docker, AWS, ODK Collect/Central, Nginx

### Ibtidaa Softwares Pvt. Ltd.

Oct 2022 – Nov 2023

Full Stack Developer & Tech Lead | Nepal (Hybrid)

- Developed the "Bidesh" App/Website using Next.js for RP Srijan Way To Success.
- Built an Event Management and Visualization Tool using Django and JavaScript for Shramik Sanjal with Chart.js integration.
- Tech: Next.js, NestJS, PostgreSQL, MongoDB, Django REST Framework, Redux.js, Jenkins

### PointZeroo

Jan 2022 – Sep 2022

Frontend Developer | Nepal (Hybrid)

- Maintained an e-commerce website and developed a web application for SSoChe, Pulchowk Campus.
- Tech: JavaScript, React, MongoDB, Node.js, HTML5, CSS

## LEADERSHIP

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### IEEE Pulchowk Student Branch

Apr 2023 – Jun 2024

Chair & Creative Director | Lalitpur, Nepal

- Led the IEEE Pulchowk Student Branch as Chair, organizing technical events, workshops, and coordinating student activities.
- Managed visual communications and promotional content for the branch as Creative Director.

## KEY PROJECTS

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**8-bit Breadboard Computer (Ben Eater Inspired)** Jan 2024 – May 2024

*6th Semester Minor Project, IOE Pulchowk Campus*

- Built a complete 8-bit computer from scratch using discrete logic ICs with a team (Rohit Joshi, Yugal Pariyar).
- Created a custom 128-bit RAM module due to IC unavailability, demonstrating adaptability and problem-solving.
- Implemented full architecture: ALU, control unit, registers, program counter, instruction decoder, clock module.
- Presentation: [8-bit Breadboard Computer with Custom RAM](#)

**Nepali Text To Speech** 2024

*Deep Learning Project*

*8th Semester Major Project, IOE Pulchowk Campus*

- Developed a Nepali language text-to-speech platform using Tacotron, synthesizing natural-sounding speech to improve accessibility for Nepali-speaking audiences.

**Digital Profile Platforms** 2025

*Municipal Data Infrastructure | [pokhara.digprofile.com](#)*

- Built comprehensive digital profile systems for 10+ municipalities including Pokhara Metropolitan City, enabling data-driven governance for 100,000+ citizens.

**Survey Management System** 2024

*Data Collection Platform | [kerabari-admin.vercel.app](#)*

- Engineered a survey platform with custom ODK Fetcher, processing 100,000+ responses with real-time analytics and live field monitoring.

**ICMS Platform** 2025

*Government CMS | [fansep.moald.gov.np](#)*

- Architected the Integrated Content Management System powering 100+ government websites nationwide using microservices with Kafka and Kubernetes.

## EDUCATION

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**Tribhuvan University, IOE, Pulchowk Campus** May 2021 – May 2026

*B.E. in Electronics, Communication and Information Engineering*

GPA: 3.37/4 (74.64%)

**SOS Hermann Gmeiner School** 2019 – 2021

*+2 Science (Physics and Mathematics)*

Grade: A+

**SOS Hermann Gmeiner School** 2019

*SEE*

Grade: A+

## TECHNICAL SKILLS

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**Languages:** TypeScript/JavaScript, Python, C/C++, Go, SQL, Shell Scripting

**Frontend:** Next.js, React.js, Redux.js, Module Federation, Tailwind CSS

**Backend:** NestJS, Express.js, tRPC, gRPC, Django, Node.js, Microservices

**Databases:** PostgreSQL, MongoDB, Redis

**DevOps & Cloud:** Docker, Kubernetes, Kafka, Jenkins, AWS (EC2, S3, Lambda), CI/CD, Nginx

**Other:** ODK Collect/Central, Embedded Systems, Digital Logic, Machine Learning, UAVs

## HIGHLIGHTS

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- 100+ government websites powered by the ICMS platform
- 50+ municipalities digitized through Digital e-Palika
- 10+ municipal digital profiles deployed in 4 months with a 2-person team
- 100,000+ citizen records processed and 300+ officials trained
- Custom 128-bit RAM built for 8-bit breadboard computer project
- 100K+ views as a music artist on Instagram