

# Sarbagya Gho Shrestha

sarbagyaghoshrestha@gmail.com | +977 9851402011 | Bhaktapur, Nepal  
[linkedin.com/in/sarbagyashrestha](https://www.linkedin.com/in/sarbagyashrestha) | [github.com/fernsky](https://github.com/fernsky) | [sarbagya.vercel.app](https://sarbagya.vercel.app)

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)

---

### 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

---

### 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

---

### 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](http://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](http://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](http://fansep.moald.gov.np)

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

## EDUCATION

---

### 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

---

**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

---

- 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