

# Srijan Khadka

Bhaktapur, Nepal

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## EDUCATION

Kathford International College of Engineering, Tribhuvan University, Nepal

2020-2025

**Bachelor of Engineering** in Electronics, Communication, and Information Engineering (**76.19%**)

## EXPERIENCE

EShikshalaya Edutainment - Nepal

Jan 2025 – May 2025

**Chief Executive Officer**

- Progressed from Volunteer to CEO through roles as Chief Trainer and Head of IoT.
- Launched the **EShikshalaya Innovation Kit**, an educational robotics and electronics kit for school STEM learning.
- Designed and led the **SEE Success Sutra** course, a structured academic support program for SEE (Grade 10) students.
- Managed and executed a 15-week national GK Quiz competition with an NPR 500K prize pool.
- Oversaw the development of an online learning platform with 1500+ students.

RoboKath - Kathford International College of Engineering , Nepal

May 2023 – Apr 2024

**Project Supervisor and Mentor**

- Led training programs for 100+ students on robotics fundamentals and embedded system design.
- Supervised hands-on projects using Arduino, Raspberry Pi, and sensor-based automation.
- Mentored junior trainers and managed team coordination for technical workshops and competitions.

The BotMinds Robotics Team - Nepal

Jan 2022 – Present

**Co-Founder & Robotics Engineer**

- Founded and led a competitive robotics team that secured **55+ national and international titles**.
- Represented Nepal at IIT Bombay, IIT Patna, and other top institutions in robotics competitions.
- Promoted STEM education through outreach programs, inspiring over 500 students across Nepal.

## ACADEMIC & TECHNICAL PROJECTS

**SQL Data Warehouse & ETL Pipeline Using Medallion Architecture (Bronze–Silver–Gold)**

Nov 2025 – Dec 2025

*Self-Directed Data Engineering Project* [Project Link](#)

- Built an end-to-end SQL Data Warehouse following the Medallion Architecture with Bronze, Silver, and Gold layers.
- Ingested raw CRM and ERP datasets into the Bronze layer using BULK INSERT and automated stored procedures.
- Cleaned, transformed, standardized, and merged data in the Silver layer with advanced T-SQL logic and data mastering rules.
- Designed analytics-ready Gold layer tables, including dimensions and fact tables for reporting and BI use cases.

**Technologies:** SQL Server, T-SQL, Stored Procedures, BULK INSERT, ETL, Data Modeling

**Deep Learning Based Real Time Waste Segregation Using Robotics Arm**

Aug 2024 – Mar 2025

*Final Year Engineering Project*

- Designed and implemented a real-time smart waste segregation system using **YOLOv9** for object detection.
- Used **Raspberry Pi 4B** for image processing and classification, and **Arduino Uno** to control a robotic arm.
- Integrated conveyor belt mechanism for automated waste intake and sorting.

**Technologies:** YOLOv9, Python, OpenCV, Raspberry Pi, Arduino

**3rd Year Minor Project**

- Developed a remote-controlled rover with live video streaming using a **Raspberry Pi and a camera module**.
- Enabled surveillance and monitoring through a web-based interface over Wi-Fi.
- Integrated motion detection and obstacle avoidance features using ultrasonic sensors.
- Demonstrated applications in security, disaster response, and reconnaissance.

**Technologies:** Raspberry Pi, Python, Arduino

## CERTIFICATIONS

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- **AWS Academy Graduate** – AWS Academy Cloud Foundations Issued by Amazon Web Services (AWS) [link](#)
- **Relational Database Certification** – FreeCodeCamp.org [link](#)  
Covered SQL, data modeling, schema design, and relational database principles.
- **SQL(Advanced)** – HackerRank [link](#)
- **Programming for Everybody (Getting Started with Python)** – Coursera [link](#)
- **What is Data Science?** – Coursera [link](#)
- **CanSAT Training Program** – NAST Nepal (*Trained by Orion Space*)  
Hands-on experience with telemetry systems, sensor integration, and satellite payload simulation.
- **Basic Electronics Training** – RoboKath, Kathmandu International College of Engineering  
Focused on circuit theory, breadboarding, and electronic component handling.
- **Arduino Training** – RoboKath, Kathmandu International College of Engineering  
Covered embedded C programming, sensor interfacing, and microcontroller-based system design.

## SKILLS

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- **Programming:** Python, SQL, C/C++
- **Databases:** Microsoft SQL Server, PostgreSQL, MySQL
- **Data Engineering:** ETL Pipelines, Medallion Architecture (Bronze–Silver–Gold), Data Modeling (Star Schema), SQL Stored Procedures, BULK INSERT, Data Warehousing
- **Cloud:** AWS (Cloud Foundations)
- **Machine Learning & CV:** YOLO, OpenCV, TensorFlow, Scikit-learn
- **Tools & Platforms:** Git, GitHub, Linux
- **Web (Basic):** HTML, CSS, JavaScript
- **Hardware (Additional):** Arduino, ESP32, Raspberry Pi

## ACHIEVEMENTS

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- **Secured 55+ robotics titles** across 30+ national and international competitions
- **Recipient of the Golden Jubilee Scholarship** from the **Indian Embassy in Nepal** for academic excellence during undergraduate studies.