

Gobinda Prasad Paudel

Student · Web Developer · IoT Enthusiast

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Experience

Student Researcher

Remote

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- Conducted research on encryption algorithms – RSA, Shor's, Grover's, their practical use case and drawbacks
- Studied linear algebra, Travelling Salesman Algorithm for quantum simulation.
- Learned group presentation, problem discussion, role division and resources gathering.

Web Developer

Independent

- Developed personal portfolio website and upgraded from time to time.
- Worked as frontend developer for Data Research Council for Students.

Hackathons

Trinity Intra College Hackathon, Cambridge Code League (National A-Levels Hackathon)

- Participated in Trinity Intra College Hackathon
- Work in a team of 3 developers, built web app for making public transport easy, safe and transparent to use by general public
- Won Trinity Intra College Hackathon and got selected to participate in Cambridge Code League.
- Worked in a team of 4 developer for development of mobile and web-app.

Projects

EduCare

Medical Emergency Response System (Won Trinity Intra College IT Cum Competition with this project)

January, 2025

- A system made to help students during accident
- Accident witness can scan QR code present in ID card of student and get student's general information and parent's contact number
- Hospital have direct access to student's general, medical information and insurance information
- Hospital can immediately start treatment, no need to recheck blood group, or other medical condition
- Can directly send request to Blood Bank if required
- Schools can send invitations of various competitions to other schools and colleges
- Colleges/schools can add new students, edit existing students and delete students

Public Transport Management System (PTMS)

ELECTRONICS/WEB APPLICATION (Won Trinity Intra College Hackathon with this project)

November, 2024

- PTMS is a web app and mobile app for general public.
- Limits the maximum number of passenger a bus can carry (if tries to overload passenger, automatically sends error to the admin)
- Bus driver can send emergency signal in case of emergency situation
- Customers can directly send the complain to Police panel if any unusual thing happens via app
- Easily unlink the lost card from mobile app
- Passengers can check seat occupancy of bus via app
- Give safety rating to a bus via app
- Lost and found system
- Customer can track their past history
- Automated fare deduction using card (nfc)
- Track bus using PTMS
- Topup account/card using gift card system
- Designed to democratize public transport, the device is suitable country like Nepal.

Skills

Spoken Languages English, Nepali, Hindi

Languages JavaScript, Python, TypeScript, Golang, PHP, Python, JavaScript, C++, SQL, Bash

Web Development React.js, Express.js, Tailwind CSS, Bootstrap, ShadCN

Libraries Spring Boot, Next J.S, jQuery, Electron.js

Databases PostgreSQL, Firebase, MySQL

Version Control Git, GitHub,

Proj. Management Notion,

Education

Trinity International College

Dillibazar, Kathmandu, NP

GCE A-LEVELS

May 2023 – October 2025

- Studying CAIE A-Levels featuring in-depth study of further mathematics, mathematics, physics and computer science.
- Participated in various extracurricular activities, including hackathons, and robotics competitions.