

# Gobinda Prasad Paudel

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## SUMMARY

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Software, IoT, and electronics (hardware and AI), mobile phone repair, full-stack web development, and real-world problem solving. Seeking opportunities to develop real-world projects focused on networking (connectivity), automation (electronics and AI), and societal impact.

## PROJECTS

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### Voltanex

2024 – Present

- An e-club for electronics, computer science, and AI enthusiasts.
- Founded and developed multiple embedded system projects under the club.
- Focused on hands-on learning, leadership development, and collaborative innovation.
- **Skills:** Arduino, Raspberry Pi, Leadership, Soft Skills
- **Website:** [voltanex.gobindapaudel.com.np](http://voltanex.gobindapaudel.com.np)

### Off-Grid Communication System

2025

- Designed an off-grid communication system to enable connectivity in remote areas, especially during natural disasters such as floods, earthquakes, and GLOFs when conventional GSM networks are unavailable.
- Provides walkie-talkie-like communication using affordable and rapidly deployable hardware for local communities.
- Planned future capability to enable offline mobile-to-mobile messaging using LoRa modules connected via USB as transmitters.
- **Skills:** ESP32, LoRa, Arduino, Python, Node.js, MQTT
- **GitHub:** [Repository](#)

### Public Transportation Management System (PTMS)

2024

- IoT-based public transportation automation and monitoring system.
- Developed two applications: a web application for customers and a web-based admin panel (partial implementation due to time constraints).
- **Key Features:**
  - Emergency SOS alerts sent by drivers to the admin panel.
  - Real-time display of available seats and safety ratings for buses.
  - Estimated arrival time at specific bus stops.
  - Easy reporting of complaints, lost-and-found items, and emergency incidents.
  - Transport card management, including detaching lost cards and topping up via QR-based gift cards.
- **Skills:** Node.js, ESP32, Next.js
- **GitHub:** [Repository](#)

## EduCare

2025

- A rapid medical emergency response system designed specifically for students.
- Student ID cards contain QR codes with minimal data and a unique identifier.
- Full medical history is accessible only by authorized hospital systems, ensuring data privacy and security.
- Limited and OTP-verified access for pharmacies and medical personnel.
- Designed for future handover to government authorities due to sensitive data handling.
- **Skills:** Python, React, FastAPI, MongoDB, Node.js, Express.js, Tailwind CSS
- **GitHub:** [Repository](#)

## Expense Tracker

2025

- Initially developed for personal use and later open-sourced for public use.
- Supports tracking of expenses, income, gifts, discounts on expenses, and financial statement generation.
- Features user authentication, analytics dashboard, PDF export, and full CRUD operations.
- Includes support for the Bikram Sambat date system.
- **Tech Stack:** Express.js REST API, MongoDB with Mongoose ODM
- **GitHub:** [Repository](#)

## Thrive – Gender Equality Platform

2025

- Hackathon project promoting gender equality through empowerment, reporting, and awareness.
- Implemented an innovative top-up system using 16-digit codes.
- Full code redeems the complete amount, while partial 8-digit continuous codes redeem half the value, allowing later reuse.
- Recognized by judges for innovation and social impact.
- **Skills:** React, Node.js, MongoDB, Express.js, Chart.js
- **GitHub:** [Repository](#)

## SKILLS

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Technical Skills	React, TypeScript, Tailwind CSS, Node.js, Express.js, Vite
Embedded Systems	ESP32, Arduino, Raspberry Pi, IoT
Other Skills	Mobile Repair, AI/ML Basics

## CERTIFICATIONS

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The Open University <b>An Introduction to Electronics</b>	10-hour course, 2025
Udemy <b>Complete JavaScript &amp; jQuery Course with Bonus Vue.js Introduction</b>	17-hour course, 2022
Udemy <b>HTML &amp; CSS: Certification Course for Beginners</b>	4-hour course, 2021
Udemy <b>Photoshop for Beginners</b>	1-hour course, 2021