Rajan Kumar Gupta

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PROFILE SUMMARY

Electronics,Communication and Information Engineer passionate about bridging gap between hardware and software. Skilled in full-stack development, IoT, and embedded systems with hands-on experience using Raspberry Pi, Arduino, and ESP modules.

EDUCATION

Bachelor in Electronics and Computer Engineering: Paschimanchal Campus, Tribhuvan University | Pokhara, Nepal
2021 – 2025

Higher Secondary Education: Kalika Manavgyan Secondary School | Butwal, Nepal
2018 – 2020

SKILLS

- **Technical Skills:** HTML, CSS, JavaScript, React.js, Node.js, Express, MongoDB, MySQL, PostgreSQL, Supabase, Python.
- **Embedded & IoT:** Raspberry Pi, Arduino, ESP8266/ESP32, AD8232 ECG Sensor, RS485, RS232, UART.
- **Tools & Frameworks:** TensorFlow, OpenCV, Git, GitHub, Next.js,

WORK EXPERIENCE

Workshop Organizer - Soldering & PCB Design
Led a hands-on session teaching fundamentals of soldering, circuit assembly, and PCB layout.
Bootcamp Attendee – React.js
Participated in an immersive React.js bootcamp, strengthening frontend skills.

PROJECTS

Theatre Booking System: Built a full-stack Theatre Booking System using React.js, TypeScript, Tailwind CSS, Node.js, Express, and PostgreSQL with Supabase. Features include JWT auth, seat booking, Khalti payment, review system, and image storage via Supabase.

Currency Converter Web App: Built a responsive app for real-time currency conversion using REST APIs and frontend technologies like HTML, CSS, and JavaScript.

Paste App: Built a lightweight text snippet manager with React, Redux Toolkit, and LocalStorage. Features include create, edit, copy, and manage snippets with Tailwind CSS UI and React Hot Toast notifications.

ECG Monitoring System: Designed and implemented ECG monitoring tool for biomedical applications with live visualization. (Paschimanchal Campus | 2023 – 2024)

Obstacle Detection for Visually Impaired: Developed an assistive system using ultrasonic sensors and haptic feedback for real-time guidance. (Paschimanchal Campus | 2024 – 2025)

EXTRA-CURRICULAR ACTIVITIES

- Organized soldering and PCB design workshops to mentor junior students.
- Participated in multiple tech events and bootcamps to stay updated with industry trends

LEADERSHIP

- Led project teams during academic and extracurricular projects.
- Mentored juniors in full-stack development and embedded systems.