

# PRASHANT ADHIKARI

Kathmandu, Nepal | 9769342293 | contact@prashantadhikari7.com.np  
prashantadhikari7.com.np | linkedin.com/in/prashant-adhikariii | github.com/pr4shxnt

## EDUCATION

<b>Birmingham City University @ Sunway</b>	July 2025 – December 2029
Bachelor of Computer Science with Artificial Intelligence	Kathmandu, Nepal
<i>Relevant Coursework:</i> Data Structures & Algorithms, Machine Learning, Software Engineering, Neural Networks, Natural Language Processing, Mobile App Development, Cloud Computing	
<ul style="list-style-type: none"><li>• Specialization in Artificial Intelligence, Machine Learning, and Software Engineering</li><li>• Focus on real-world problem solving, group projects, and research-led learning</li><li>• Active member of academic clubs and tech meetups</li></ul>	

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Python, Kotlin, HTML, CSS

**Frameworks & Libraries:** React.js, Next.js, React Native, Node.js, Express.js, TailwindCSS, GSAP, Framer Motion

**Tools & Technologies:** Git, GitHub, Docker, REST APIs, JWT Authentication, Figma, Postman, Linux, ESP8266, PN532

**Databases:** MongoDB, PostgreSQL, Cloudinary

**Core Competencies:** Full-Stack Development, AI Integration, NFC Technology, Payment Systems, Real-time Tracking, State Management

## PROFESSIONAL EXPERIENCE

<b>BlueFox Pvt. Ltd.</b>	November 2024 – January 2025
Frontend Developer Intern (Remote)	Itahari, Nepal
<ul style="list-style-type: none"><li>• Developed E-commerce web application using React.js and Redux Toolkit for centralized state management</li><li>• Implemented dynamic product filtering system with price, size, and brand filters improving user experience</li><li>• Collaborated with backend team to integrate RESTful APIs ensuring seamless data flow</li><li>• Ensured responsive design and cross-browser compatibility using TailwindCSS</li></ul>	

## PROJECTS

<b>TransitPay – NFC Payment System</b>	November 2025
<i>Kotlin, React Native, Next.js, Node.js, ESP8266, PN532   GitHub   Demo</i>	

<ul style="list-style-type: none"><li>• Developed NFC/HCE-based contactless payment system for public transport reducing transaction time by 70%</li><li>• Implemented Host Card Emulation (HCE) using Kotlin for secure NFC reader and mobile phone communication</li><li>• Integrated ESP8266 microcontroller and PN532 NFC reader to create custom Payment Operating System</li><li>• Built responsive landing page with Next.js handling user registration and NFC card requests</li><li>• Created cross-platform mobile application using React Native with native bridging for encrypted user ID transmission</li><li>• Designed backend API with Express.js and MongoDB ensuring secure transaction processing</li><li>• Implemented EV3 card encryption preventing NFC cloning and ensuring transaction security</li></ul>	October 2025
<b>EcoBin – AI Waste Management System</b>	

*React.js, Node.js, Gemini Flash API, Leaflet.js, MongoDB | GitHub | Demo*

- Engineered AI-powered waste management platform reducing manual sorting effort by 90%

- Integrated Gemini Flash 1.5 API for automated waste classification using BASE64 image conversion
- Developed QR code tracking system for user authentication and waste disposal monitoring
- Implemented real-time truck tracking using Leaflet.js improving collection route efficiency
- Built multi-portal architecture with separate dashboards for Admin, Tenant, Landlord, and Driver roles
- Created automated email and push notification workers for real-time updates and alerts

### **Client Portal – Project Management System**

July 2025 – Present

*Next.js, React Redux, Node.js, GitHub API, Gemini AI | GitHub | Demo*

- Built comprehensive client management portal streamlining project tracking and communication
- Integrated GitHub API for automated commit extraction with custom filtering algorithms and data visualization
- Implemented JWT authentication ensuring secure access control and user session management
- Enhanced client communication with Gemini 1.5 Flash AI integration for intelligent responses
- Developed shared backend architecture with portfolio site optimizing resource utilization
- Created dynamic animations using GSAP and Framer Motion with Shadcn UI components

### **eSewa-react – NPM Payment Library**

June 2025

*TypeScript, JavaScript, React.js, Crypto-js | NPM | GitHub | Docs*

- Published open-source React library simplifying eSewa payment gateway integration for Nepali developers
- Automated hash signature generation and base64 URL encoding reducing implementation time by 80%
- Designed developer-friendly React hooks interface ensuring seamless frontend architecture integration
- Implemented secure payment verification system with comprehensive error handling
- Wrote TypeScript declarations providing type safety and improved developer experience

## **ACHIEVEMENTS & CERTIFICATIONS**

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### **Achievements:**

- Grand Winner – Codarambha 2025, First Edition: Led team to develop innovative solution
- 2nd Runner-Up – MIT x THRIVE Hackathon 2025: Recognized for technical excellence and collaboration

### **Leadership:**

- Executive Member – SSRC Sports Club
- General Member – Leo Club Kathmandu Peace Town

### **Certifications:**

- React - Basic (HackerRank)
- Frontend Developer - React (HackerRank)
- Elements of AI (University of Helsinki)
- Node.js - Basic