

PRASHANT ADHIKARI

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EDUCATION

Birmingham City University @ Sunway July 2025 – December 2029
Bachelor of Computer Science with Artificial Intelligence Kathmandu, Nepal
Relevant Coursework: Data Structures & Algorithms, Machine Learning, Software Engineering, Neural Networks, Natural Language Processing, Mobile App Development, Cloud Computing

- Specialization in Artificial Intelligence, Machine Learning, and Software Engineering
- Focus on real-world problem solving, group projects, and research-led learning
- Active member of academic clubs and tech meetups

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

BlueFox Pvt. Ltd. November 2024 – January 2025
Frontend Developer Intern (Remote) Itahari, Nepal

- Developed E-commerce web application using React.js and Redux Toolkit for centralized state management
- Implemented dynamic product filtering system with price, size, and brand filters improving user experience
- Collaborated with backend team to integrate RESTful APIs ensuring seamless data flow
- Ensured responsive design and cross-browser compatibility using TailwindCSS

PROJECTS

TransitPay – NFC Payment System November 2025
Kotlin, React Native, Next.js, Node.js, ESP8266, PN532 | GitHub | Demo

- Developed NFC/HCE-based contactless payment system for public transport reducing transaction time by 70%
- Implemented Host Card Emulation (HCE) using Kotlin for secure NFC reader and mobile phone communication
- Integrated ESP8266 microcontroller and PN532 NFC reader to create custom Payment Operating System
- Built responsive landing page with Next.js handling user registration and NFC card requests
- Created cross-platform mobile application using React Native with native bridging for encrypted user ID transmission
- Designed backend API with Express.js and MongoDB ensuring secure transaction processing
- Implemented EV3 card encryption preventing NFC cloning and ensuring transaction security

Ecobin – AI Waste Management System October 2025
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

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