

NISCHAL ACHARYA

Full Stack Web Developer — UI/UX Designer — Backend Specialist

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Professional Summary

Passionate Full Stack Web Developer and UI/UX Designer with professional backend development experience at Shangrila Microsystem Pvt Ltd. Specialized in building dynamic, user-centric web applications using modern technologies including Laravel, React, React Native, and Flutter. Proven track record of delivering client projects and innovative IoT solutions. Strong expertise in both frontend and backend development with comprehensive knowledge of PHP, JavaScript, Python, Java, and SQL. Adept at creating responsive interfaces, developing RESTful APIs, and optimizing database performance. AWS-certified professional committed to continuous learning and delivering scalable solutions that drive business growth and enhance user experiences.

Professional Experience

Backend Developer

June 2023 – September 2023

Shangrila Microsystem Pvt Ltd

Kathmandu, Bāgmatī, Nepal

- Developed and maintained robust RESTful APIs using PHP and Laravel framework, serving multiple client applications with high reliability
- Designed and implemented optimized database schemas using Microsoft SQL Server and MySQL, improving query performance through strategic indexing and normalization
- Integrated Firebase for real-time data synchronization and push notification services in mobile applications
- Collaborated with cross-functional teams including frontend developers, UI/UX designers, and project managers using agile methodologies
- Implemented secure authentication systems with JWT tokens, OAuth, and Laravel middleware for enterprise-level security
- Wrote comprehensive API documentation and conducted code reviews to maintain high code quality standards
- Debugged and resolved critical production issues, ensuring 99% uptime and optimal performance for client-facing applications
- Utilized Git for version control and collaborated with team members through GitHub for efficient code management

Technical Projects

Kick Up Futsal Booking Management System | *Final Year Project*

2023 – 2024

- **Technologies:** Laravel (Backend), Bootstrap (Frontend), JavaScript, MySQL, RESTful API
- Architected and developed a comprehensive futsal booking platform with three distinct user roles: customers, futsal managers, and system administrators
- Implemented real-time court availability checking system with automatic booking conflict resolution
- Designed responsive user interface using Bootstrap framework ensuring seamless experience across desktop, tablet, and mobile devices
- Developed RESTful APIs for third-party integrations and mobile application connectivity
- Created automated email notification system using Laravel Mail for booking confirmations, cancellations, and reminders
- Integrated secure payment gateway for online transactions and booking deposits
- Built comprehensive admin dashboard with analytics, revenue tracking, and user management capabilities
- Implemented booking history, user profiles, and rating/review system for enhanced user engagement

Salakpur KhanePani Water Service Portal | *Client Project*

October 2025 – Present

- **Technologies:** PHP, JavaScript, HTML5, CSS3, MySQL
- Developing public-facing web portal for community water service management serving local residents of Salakpur
- Implemented comprehensive Content Management System (CMS) enabling administrators to publish announcements, service updates, and maintenance schedules
- Created intuitive user interface for citizens to access real-time water supply schedules, billing information, and submit service requests
- Designed normalized database architecture to efficiently handle user accounts, service tickets, billing records, and administrative data
- Developed notification system to alert residents about scheduled maintenance and water supply interruptions
- Implemented responsive design ensuring accessibility across all devices for maximum community reach

E-Commerce Clothing Website | *Client Project*

2023

- **Technologies:** Java Server Pages (JSP), JSTL, SQL, HTML5, CSS3, JavaScript
- Built full-featured e-commerce platform with comprehensive product catalog showcasing men's, women's, and kids' apparel
- Implemented advanced filtering system allowing users to browse products by category, size, color, price range, and brand
- Developed shopping cart functionality with session management, product quantity adjustment, and price calculation
- Created secure user authentication and authorization system with encrypted password storage using industry-standard hashing algorithms
- Designed and implemented checkout process with order summary, shipping address management, and order tracking
- Built comprehensive admin panel featuring inventory management, order processing, customer management, and sales analytics dashboard
- Integrated product image gallery with detailed descriptions, size charts, and customer reviews
- Implemented search functionality with auto-suggestions and product recommendations based on browsing history

IoT-Based Bus Management & Tracking System | *Academic IoT Project* 2022 – 2023

- **Technologies:** PHP, JavaScript, Google Maps API, Arduino, GPS Module, IoT Sensors
- Developed end-to-end IoT solution integrating hardware (Arduino, GPS sensors) with web application for real-time bus fleet management
- Implemented GPS tracking system using Arduino microcontrollers and GSM modules for live location updates
- Integrated Google Maps API to display real-time bus locations on interactive maps with route visualization
- Created comprehensive web dashboard for transportation administrators to monitor entire fleet operations, track delays, and optimize routes
- Developed passenger-facing interface showing real-time bus arrival predictions and route information
- Implemented data logging and analytics system to track bus schedules, delays, fuel consumption, and passenger statistics
- Designed alert system to notify administrators of route deviations, breakdowns, or schedule delays
- Built historical data analysis features for route optimization and operational efficiency improvements

Education

BSc (Hons) Computing – Information Technology 2021 – November 2024

Itahari International College

Sundar Dulari, Nepal

- Affiliated with London Metropolitan University, United Kingdom
- Comprehensive curriculum covering Software Development, Database Systems, Web Technologies, and System Architecture

School Leaving Certificate (SLC) – Management Stream March 2019 – December 2021

Mount Everest English Secondary School

Gauradaha, Nepal

Secondary Education Examination January 2009 – December 2019

Mount Everest English Secondary School

Gauradaha, Nepal

Technical Skills

Programming Languages: PHP, JavaScript (ES6+), Python, Java, SQL, HTML5, CSS3
Backend Frameworks: Laravel (Advanced), Node.js, RESTful API Development
Frontend Technologies: React, React Native, Bootstrap, jQuery, AJAX, Responsive Design
Mobile Development: Flutter, React Native (Cross-platform Development)
Database Management: MySQL, Microsoft SQL Server, Firebase Realtime Database, Database Design & Optimization
Development Tools: Visual Studio Code, PhpStorm, WebStorm, Eclipse IDE, Git Bash, Postman API
Server & Deployment: Lagon, XAMPP, Apache, Linux Server Administration
Database Tools: MySQL Workbench, DBeaver, phpMyAdmin, SQL Management Studio
Version Control: Git, GitHub, GitLab, Branching & Merging Strategies
Cloud Platforms: AWS (EC2, S3, Lambda), Microsoft Azure, Firebase Hosting & Cloud Functions
Operating Systems: Windows (Advanced), Linux/Unix (Ubuntu, CentOS), macOS
IoT & Hardware: Arduino Programming, Sensor Integration, GPS Modules, Embedded Systems
APIs & Integration: RESTful APIs, Google Maps API, Payment Gateway Integration, OAuth, JWT
UI/UX Design: Figma, Adobe XD, Responsive Web Design, User-Centered Design Principles
Software Engineering: Agile/Scrum Methodologies, Design Patterns, Code Review, Testing & Debugging

Professional Certifications

AWS Academy Graduate – AWS Cloud Foundations <i>Amazon Web Services (AWS)</i> <ul style="list-style-type: none">Comprehensive training in cloud computing concepts, AWS core services, security, architecture, and pricing	2022
Career Essentials in Software Development <i>Microsoft & LinkedIn Learning</i> <ul style="list-style-type: none">Professional certification covering software development lifecycle, best practices, and industry standards	2023
Build Your Laravel Skills <i>LinkedIn Learning</i> <ul style="list-style-type: none">Advanced Laravel framework training including Eloquent ORM, middleware, authentication, and API development	2023
Improve Your React Skills <i>LinkedIn Learning</i> <ul style="list-style-type: none">Advanced React concepts including hooks, state management, component optimization, and modern React patterns	2023
Prompt Design in Vertex AI Skill Badge <i>Google Cloud</i>	2023
Introduction to Large Language Models <i>Google Cloud</i>	2023
Introduction to Responsible AI <i>Google Cloud</i>	2023
Microsoft Azure AI Fundamentals: AI Overview <i>Microsoft</i>	2023
Learning Git and GitHub <i>LinkedIn Learning</i>	2023
Frontend Development – HTML <i>Great Learning</i>	2022
Learning Python <i>LinkedIn Learning</i>	2022
Learning Java Programming <i>Great Learning</i>	2022

Core Competencies & Soft Skills

Technical Competencies: Problem Solving, Algorithm Design, Code Optimization, Debugging, System Architecture, Database Design, Security Best Practices

Project Management: Agile Methodologies, Time Management, Deadline-Driven Delivery, Task Prioritization

Communication Skills: Technical Documentation, Client Communication, Team Collaboration, Presentation Skills

Analytical Skills: Requirements Analysis, Critical Thinking, Attention to Detail, Performance Optimization

Professional Attributes: Self-Motivated Learner, Adaptability, Team Player, Strong Work Ethic, Continuous Improvement

Additional Information

Portfolio: acharyanischal.com.np – Showcasing live projects, code samples, and technical blog

Languages: English (Fluent), Nepali (Native)

Interests: Open Source Contribution, Emerging Technologies (AI/ML, Blockchain), IoT Solutions, Mobile App Development

Availability: Immediately available for full-time positions or freelance projects

References: Available upon request