

AMIT NIRAULA

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Sanothimi, Bhaktapur

TECHNICAL SKILLS

Languages: C, C++, HTML, CSS, JavaScript

Frontend: React.js, Next.js, Tailwind CSS

Backend: Node.js, Express.js, RESTful APIs, JWT Authentication

Databases: PostgreSQL, MongoDB

Cloud & DevOps: AWS (EC2, S3, Lambda, Athena, SQS), Docker

Messaging & Architecture: RabbitMQ, Microservices, Monolithic Architecture

Tools: Git, GitHub, Postman, Swagger

Operating Systems: Linux (Ubuntu)

PROJECTS

Distributed File Processing System

file-processing.com

- Designed a microservices-based architecture with Upload, Worker, and Status services to process large file uploads asynchronously.
- Implemented RabbitMQ message queues to decouple services and enable background processing without blocking the main API.
- Built fault-tolerant processing with retry logic, status tracking, and persistent state management using PostgreSQL.
- Containerized the system using Docker for isolated deployment of services, message broker, and database.

Sunshine Asian

treks-nepal.com

- Built a responsive travel UI showcasing multi-destination tour packages with a modern and consistent design system.
- Implemented rich interactive user experience using Framer Motion for smooth animations, transitions, and dynamic browsing.
- Designed reusable and scalable UI components using Tailwind CSS and shadcn/ui for responsive and accessible interfaces.
- Developed structured frontend rendering for 50+ travel packages with dynamic itinerary and pricing display.

Hotel Booking System

HotelBooking.com

- Developed a full-stack hotel booking platform using React, TypeScript, Node.js, Express.js, and PostgreSQL with Prisma ORM.
- Implemented role-based access control for Admin, Owner, and Customer with secure JWT authentication.
- Integrated payment gateway, real-time notifications, and dashboard analytics for booking management.

AWS Project

- Project 1: AWS Serverless Data Pipeline
- Project 2: AWS Serverless Feedback System

EDUCATION

Texas International College

2022 – Present

Bachelor of Science in Computer Science & Information Technology (B.Sc. CSIT)

Glacier International College

+2 Level (Science), NEB

ACHIEVEMENTS

Actively participated in hackathons and team-based projects; secured 3rd place in Texas Hackathon Vol II, improving system design and problem-solving skills.