Aaryan Shrestha

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PROFESSIONAL EXPERIENCE

Soft Crunch Pvt. Ltd.   Kathmandu, Bagmati
Internship   06/2024 - 07/2024

- Designed a high-level microservices architecture for a hotel and private property rental platform.
- Incorporated core services: Product, Order, Vendor, Customer, and Payment Services.
- Implemented additional services: Review and Rating, Notification, and Support to enhance user experience.
- Ensured scalability, security, and seamless communication via API Gateway.
- Integrated authentication mechanisms (OAuth 2.0/JWT) for secure access control.

PROJECTS

Full-Stack E-Commerce Platform

- Architected microservices-based e-commerce solution using Next.js, TypeScript, and Tailwind CSS
- Engineered distributed systems with microservices for user management, product catalog, order processing, payment gateway, and real-time notifications
- Developed sophisticated frontend with SSR, JWT authentication, dynamic filtering, state management, and responsive design
- Implemented advanced features including real-time inventory, dynamic pricing, and PWA capabilities

Sports Equipment Inventory Management System (SEIMS)

- Architected a full-stack TypeScript application with React 18 and Supabase, implementing real-time inventory tracking, advanced sales analytics, and secure authentication
- Developed secure API endpoints with RBAC, JWT authentication, and protected routes
- Engineered complex state management using React Query with optimistic updates and real-time data synchronization
- Built data visualization components using Recharts for analytics and reporting
- Built responsive UI with dynamic form handling, real-time search, and interactive data visualization

EDUCATION

Vellore Institute of Technology   Vellore, Tamil Nadu
Bachelor of Technology in Computer Science and Engineering   09/2022 - 08/2026
CGPA: 8.61

Little Angels College of Higher Studies   Hattiban, Lalitpur
A-Levels   04/2019 - 11/2021

TECHNICAL SKILLS

- Next Js
- Express Js
- SQL
- C++
- Python
- Mongo DB
- Typescript

PUBLICATIONS

- Co-Author of Book Chapter on "Federated Learning For Secure Smart Cities Using IOT".