Dev Jayswal

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Technical Skills

Languages: JavaScript (ES6+), TypeScript, C++, Python, SQL, HTML5, CSS3
MERN & Web: React.js, Next.js, Node.js, Express.js, MongoDB, Redux Toolkit, Tailwind CSS, REST APIs
DevOps & Cloud: Docker, Kubernetes, AWS (EC2, S3), CI/CD (GitHub Actions), Nginx, Linux (Kali/Ubuntu)
Tools & Concepts: Git, Postman, Microservices Architecture, JWT Authentication, System Design, Data Structures
AI/ML Familiarity: Python, PyTorch, LLMs (Integration via API), LangChain, Pandas, NumPy

Experience

FoodNEST(S)   07/2024 - 03/2025
Software Engineering Intern (Full Stack)   *Lucknow, U.P.*

- Architected a scalable **Progressive Web App (PWA)** using **Express.js, MongoDB**, and JS frameworks, facilitating real-time order tracking which improved operational efficiency by 25%.
- Developed and deployed a High-Availability Chatbot System serving 500+ users; built the **REST API layer** using Node.js to interface between LLMs and the frontend client.
- Implemented **DevOps best practices** by containerizing microservices with **Docker** and configuring **Nginx** as a reverse proxy to handle concurrent requests securely.
- Optimized database queries and implemented **Response Caching (Redis/In-memory)** to reduce API latency by 50% and computational overhead by 30%.

Kisaanpe.com   02/2024 - 07/2024
Web Developer   *Gwalior, M.P.*

- Designed and developed a responsive web interface for user registration and data management; implemented **JWT authentication** for secure user sessions.
- Implemented a QR code-based onboarding system that handled instant data access for over 200 users, utilizing optimized API endpoints.
- Managed Linux-based distributed environments on **DigitalOcean**; configured TCP/IP protocols and firewalls, improving server reliability by 35%.

Projects

SocialEnv - Real-time Networking Platform | GitHub | Live Demo   10/2024

- Engineered a high-performance networking platform using **React, TypeScript**, and Vite, achieving sub-second page loads through optimized build tooling.
- Implemented **JWT Authentication** and Profile Management, allowing users to securely manage personal data and media avatars using **Node.js and Express.js**.
- Built a dynamic media sharing engine allowing users to upload posts with images, utilizing **Tailwind CSS** for a fully responsive mobile-first UI.
- Leveraged **Redux Toolkit** for centralized state management and **React Hook Form** to ensure efficient, error-free user data handling.

MITS-SATS - Timetable Scheduling System | GitHub | Live Demo   12/2025

- Engineered a high-performance scheduling engine using **Google OR-Tools (CP-SAT Solver)** to automate conflict-free timetable generation across multiple constraints (Faculty, Rooms, Labs).
- Architected a **Flask REST API** that supports multi-core parallel processing (up to 16 workers) and configurable solver parameters, optimizing resource allocation efficiency.
- Developed a responsive dashboard using **Next.js 15** and **TypeScript**, featuring real-time generation status, loading indicators, and dynamic visualization of scheduling data.
- Implemented complex constraint logic to handle variable subject durations and teacher availability, ensuring a **100% validity rate** for generated academic schedules.

Education

Madhav Institute of Technology and Science, Gwalior   10/2022 - 07/2026
B.Tech in Artificial Intelligence and Machine Learning   *Gwalior, M.P.*

Achievements

Competitive Programming: Rated 1650 on LeetCode — Solved 300+ Data Structure & Algorithm problems.
Hackathons: Amazon ML Challenge 2025 (AIR 23) - Demonstrated optimization and problem-solving skills.
Certifications: Completed 6-month onsite internship focusing on Scalable Web Systems and AI Integration.