Sushil Panthi

Full Stack Developer (MERN) | Open to Relocation

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Sushil Panthi Sushil Panthi Sushil Panthi Detailed Web Portfolio

PROFILE

Results-driven Full Stack Developer with expertise in the MERN stack and a strong foundation in Computer Applications. Proven track record of developing scalable, high-performance web applications, combining technical skills with a proactive approach to problem-solving. Committed to contributing to dynamic tech environments with innovative solutions.

PROFESSIONAL EXPERIENCE

Tech Intern, *Anishk Sustainable Development Foundation (ASDF)* 04/2024 – 04/2025 | Remote

- Collaborated with a team to develop the "Arka Journal" website, focusing on research and publications related to rural and tribal community initiatives.
- Utilized HTML, CSS, JavaScript, and PHP to build a responsive, user-friendly website for showcasing research papers and publications.
- Worked closely with developers, designers, and researchers to integrate research content seamlessly into the website.
- Enhanced the accessibility and visibility of community-driven research by creating a digital platform for sharing knowledge and innovations.

Full Stack Development Intern, *Innomatics Research Labs* 01/2025 – 03/2025 | Remote

- Built dynamic and interactive user interfaces using React.js, improving the usability and aesthetics of web applications.
- Implemented robust server-side logic with Node.js and Express.js, ensuring secure and efficient data handling.
- Managed and queried data using MongoDB, optimizing application performance through effective data modeling.
- Participated in training sessions to upskill in both frontend and backend technologies, applying new concepts directly to real-world tasks.
- Proactively handled assigned tasks, demonstrating problem-solving skills and a commitment to learning and growth.

Full Stack Development Intern, *Pantech Prolabs India Pvt Ltd* 07/2024 – 01/2025 | Remote

- Utilized MERN stack (MongoDB, Express.js, React.js, Node.js) and modern development practices to build scalable and dynamic applications.
- Worked under the supervision of senior developers, learning and applying best practices in software development.
- Contributed to debugging, testing, and optimizing code to improve application performance and reliability.
- Enhanced technical knowledge through hands-on experience and real-world application of software development concepts.

PROJECTS

Emotion-Based Mental Health Tracker,

Using React, TypeScript, Vite, Material-UI, Recharts, JWT, localStorage (simulated DB), Tailwind CSS

- Emotion-first risk assessment with automatic webcam emotion analysis on login, 8-question survey, instant personalized risk score and recommendations.
- Closed-loop improvement workflow with camera-monitored guided activities, 5-question emotion retest, quantified pre/post improvement and visual comparisons.
- Iterative personalized recommendations via dynamic re-assessment loop delivering targeted interventions and next-step guidance to reduce user risk.

- Secure analytics-backed platform with role-based authentication, protected admin dashboard, persistent localStorage data and exportable real-time dashboards.

Source Code

LumbiniCare Connect: Lumbini Nepal Hospital, *Using MERN Stack (MongoDB, Express.js, React.js, Node.js)*

- Built a full-stack hospital management system enabling efficient management of appointments, prescriptions, and departments.
- Implemented secure authentication and role-based access control (RBAC) using JWT for data privacy and restricted access.
- Designed scalable RESTful APIs for CRUD operations with robust error handling and MongoDB integration.
- Enhanced user experience with a responsive React.js frontend and Material-UI for a mobile-friendly interface.

Source Code

SushilGPT: Full-Stack AI Chat Platform,
Using MERN Stack (MongoDB, Express.js, React.js, Node.js), Vite, CSS Modules, OpenAI API

- Developed a ChatGPT-inspired conversational AI platform featuring real-time chat using the MERN stack.
- Integrated OpenAI API for generating intelligent and context-aware responses, enabling seamless user interaction.
- Implemented persistent chat history storage with MongoDB and designed RESTful APIs for robust backend operations.
- Created a modern, responsive UI using React.js, Vite, and CSS modules, ensuring an engaging user experience across devices.

Source Code

FaceMark: Automated Attendance Solution, *Using Python and OpenCV, Face Recognition Library*

- Developed a dynamic and efficient attendance system using Face Recognition Technology. The system automates attendance marking by detecting and identifying student faces from classroom photos.
- The project allows teachers to take attendance by capturing a class photo, automatically marking students present or absent based on face recognition. It also provides a dashboard for managing student details and viewing attendance records.
- Architected a face detection and recognition module leveraging Flask, OpenCV, and Face Recognition Library; the tool is now used by over 20 employees across security teams.

Source Code

StockSmart: MEN Stack Inventory & Billing, *Using MEN Stack (MongoDB, Express.js, Node.js), HTML/CSS*

- Developed a robust inventory and billing system with real-time stock updates and automated alerts.
- The project provides a comprehensive platform for administrators, cashiers, and stock managers to efficiently manage stock, generate bills, and monitor sales data.
- Built using the MEN stack (MongoDB, Express.js, Node.js). Employed HTML/CSS/JavaScript for frontend development and Node.js for backend operations.
- Streamlined supermarket operations, minimized human errors, and provided real-time insights into inventory and sales performance.

Source Code

StudentTrack: Django-Based Management, *Using Python, JavaScript, Django, HTML/CSS*

- Developed a robust platform for managing student data with features like CRUD operations, course filtering, and error handling.
- Designed a responsive user interface for seamless interaction.
- Implemented secure database operations to manage sensitive information.

Source Code

🎓 EDUCATION

Bachelor of Computer Applications (BCA), 07/2023 – 07/2026
Sandip University (CGPA : 8.2) Nashik, Maharashtra, India

SKILLS

Programming & Development
MERN Stack (MongoDB, Express.js, React.js, Node.js), Python, Java, SQL, C, C++

Tools & Platforms
Git, Microsoft Office Suite

Data Analytics
Power BI, Data Visualization, Microsoft Excel

Soft Skills
Leadership, Communication, Team Collaboration, Problem Solving

Web Technologies
HTML, CSS, JavaScript

RESEARCH PAPER

A Blockchain-Driven Decentralized Framework for Secure and Automated Spectrum Trading in 6G Wireless Networks Using Automata Theory, *International Conference on Advances in Computational Intelligence and Applications-2025 at Insitute of Information Technology & Management(IITM), GGS Indraprastha University*
11/2025 | New Delhi

- Developed a blockchain-based decentralized framework for secure and automated spectrum trading in 6G networks using smart contracts and finite state automata for verification.
- Ensured privacy and trust through Zero-Knowledge Proofs and tokenization of spectrum assets as digital NFTs.
- Integrated machine learning to enhance real-time trade validation, reducing latency and improving transaction success rates compared to centralized systems.

AI-Augmented Real-Time Character Animation in AR/VR Using Consumer-Grade Motion Capture and Automata-Guided Workflow, *(ICETDA 2025), 3rd International Conference on Emerging Trends of Design & Arts at Poornima University*
09/2025 | Jaipur, Rajasthan

- Created a deep learning and automata-driven system for real-time AR/VR character animation using affordable consumer-grade motion capture devices.
- Achieved high accuracy (up to 95%) and low latency (<50 ms) with superior garment alignment and robust performance across diverse applications.
- Awarded **Best Paper** at ICEIDA 2025 for scalable innovation in immersive animation.

A Bioinformatics-Inspired Machine Learning Framework for Financial Fraud Detection Using Sequence Alignment and Evolutionary Optimization, *(FINCON 2025), International Financial Security and Management Conference-2025 at National Forensic Sciences University*
08/2025 | Gandhinagar, Gujarat

- Proposed a bioinformatics-inspired framework using sequence alignment and motif discovery for advanced financial fraud detection.
- Applied genetic algorithms for real-time, adaptive model tuning to boost accuracy and handle severe class imbalance.
- Achieved 95%+ accuracy and F1-score, outperforming traditional ML methods with better interpretability and robustness.

HARNESSING MACHINE LEARNING TO DETECT AND PREVENT CREDIT CARD FRAUD,
IEEE Conferences- ARRIA 2024 at Manipal Institute of Technology
12/2024 | Manipal, Karnataka

- Identified and emphasized crucial anonymized features (V17, V14, and V10) for predicting fraudulent activities, significantly enhancing model performance.
- Highlighted the importance of feature selection and data preprocessing in improving fraud detection systems.
- Demonstrated the potential for implementing machine learning models to significantly reduce financial losses and increase security in financial transactions.