# **Sushil Panthi** Full Stack Developer (MERN) | Open to Relocation

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Nashik-422213, Maharashtra, India in Sushil Panthi





Sushil Panthi

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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

#### Full Stack Development Intern, Innomatics Research Labs

01/2025 - 03/2025 | Remote

- Built dynamic and interactive user interfaces using React. is, 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.

#### **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.

### PROJECTS

#### Hospital Management System (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.

### Face Recognition Attendance, Using Python and OpenCV

- 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.

#### EDUCATION

**Bachelor of Computer Applications (BCA),** Sandip University (CGPA: 8.4)

07/2023 - 07/2026 | Nashik, Maharashtra, India



#### **Programming & Development**

MERN Stack (MongoDB, Express.js, React.js, Node.js), Python, Java, SQL, C,

#### **Tools & Platforms**

Git, Microsoft Office Suite

#### **Data Analytics**

Power BI, Data Visualization, Microsoft Excel

Leadership, Communication, Team Collaboration, Problem Solving

#### **Web Technologies** HTML, CSS, JavaScript

# RESEARCH PAPER

#### AI-Augmented Real-Time Character Animation in AR/VR Using Consumer-Grade Motion Capture and Automata-Guided Workflow,

09/2025

(ICETDA 2025), 3rd International Conference on Emerging Trends of Design & Arts

- 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 at NFSU Gandhinagar

- 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, ( <code>IEEE Conferences-ARRIA 2024</code> )

12/2024

- 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.

08/2025