Sumit Sharma

Software Engineer | Full Stack Developer (MERN) | AI Engineer

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Professional Summary

A software engineering student with practical experience in full-stack development (MERN) and AI-driven solutions. Proficient in building scalable web applications using React.js, Node.js, Vite.js, and Tailwind CSS, and experienced in data science workflows using Python, TensorFlow, Pandas, and scikit-learn. Solid background in state management with Context API, API integration, and asynchronous programming. Proven capacity to provide practical solutions through projects involving deep learning classification models, environmental reporting tools, and healthcare platforms. Devoted to solving challenging issues by combining software engineering and AI innovation.

SKILLS

- **Languages:** JavaScript, Python
- **Frameworks & Libraries:** React.js, Vite.js, Tailwind CSS, Node.js, Tensorflow, Scikit-learn, Pandas, NumPy, Seaborn
- **State Management:** Context Api
- **Tools:** Git/GitHub, VS Code, Postman, mini-Conda, Kaggle
- **Other Skills:** Java, CPP, SQL
- **Focus Areas:** Full Stack Development (MERN), AI Engineer

EDUCATION

Bachelor of Engineering (BE) in Software Engineering (Mehran University of Engineering and Technology)
Dec 2022 - Dec 2026 (Currently in 3rd Year) | **CGPA: 3.61 / 4.0**

EXPERIENCE

Freelancing Web & AI Engineer
Jan 2023 – Present
- Delivered paid projects using MERN stack and deep-learning AI models.
- Managed end-to-end development, deployment, and client support.

PROJECTS

MERN Projects

- **MediShift-Align — Healthcare Shift Management Platform (Dec 2024 – Jan 2025)**
  - Built a full-stack MERN web application connecting medical professionals with healthcare facilities for real-time shift management and credential verification.
  - Implemented AES-256 encrypted credential verification, predictive matching algorithm, and live shift tracking dashboard.
  - Integrated email/SMS notifications, compliance audit trails, and performance analytics.
- **EcoTracker - Community Environmental Reporting Platform (May 2025)**
  - Developed a full-stack environmental issue reporting system with real-time map-based incident tracking and staff assignment.
  - Integrated Leaflet.js for interactive maps and Geolocation API for auto-detecting/logging user coordinates.
  - Enabled admins to monitor reports on a heatmap and assign staff based on availability and proximity.
- **TrunPage – Online Bookstore Platform (June 2025)**
  - Designed and developed a full-stack MERN-based e-commerce platform for browsing, purchasing, and downloading digital books.
  - Implemented category-based filtering, order tracking, and admin dashboard for inventory and sales management.

Data Science Projects

- **Apple Store EDA – Exploratory Data Analysis (Oct 2024)**
  - Cleaned and preprocessed a dataset of 1.2M+ apps from Apple App Store using Pandas and NumPy.
  - Conducted in-depth EDA to uncover trends in genres, pricing, user ratings, and developer activity.
  - Created interactive visualizations using Seaborn, Matplotlib, and Plotly for data storytelling.
  - Automated data profiling, handled missing values, and optimized data types for performance.
- **Skin Diseases Classification – Deep Learning Project (Jul 2025)**
  - Developed a CNN model using TensorFlow/Keras to classify skin diseases from medical images.
  - Applied image preprocessing, data augmentation, and model tuning to improve accuracy.
  - Integrated Grad-CAM for visual interpretation of model predictions.

SOFT SKILLS

- Dynamic Coding
- Microsoft Office
- Problem-solving
- Canva
- Communication
- Video Editing
- Figma

ACHIEVEMENTS

24th Position Overall — Hack for Humanity (Mar 2025)   Devpost Hackathon (Online)

Achieved 24th position in a competitive hackathon by developing an innovative solution, showcasing strong technical and collaborative skills under time constraints.

LANGUAGES

- Urdu
- English