SAYANTAN PAL

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SUMMARY

Experienced Full-Stack Developer with a strong MERN stack background, skilled in creating scalable web applications and robust backend services. Proficient in Agile methodologies and API development, delivering high-quality solutions in dynamic environments.

EDUCATION

Vellore Institute of Technology, Bhopal,Madhya Pradesh   Graduating September 2025
Bachelors in Technology   7.99/10
Computer Science and Engineering Specialization. In Cybersecurity and Digital Forensics
<u>Relevant coursework:</u> Object-Oriented Programming, Database Management Systems (MySQL, MongoDB), Software Engineering, API Development

TECHNICAL SKILLS

Programming Languages: Python,Java

Web Technologies: ReactJS, NodeJS, ExpressJS, VanillaJS, TailwindCSS
Database Management Systems: MySQL, MongoDB, Django, Firebase
Operating Systems: Windows, Linux, Scheduling Algorithms
Other Skills: Git, GitHub,Figma
Certifications:

- MERN stack (Ethnus) - November 2023

- Android Application Development (SmartBridge) – November 2023

PROFESSIONAL EXPERIENCE

Ethnus, Remote: MERN Stack Intern   Aug 2023 – Nov 2023
- Developed a full-stack news portal (NewsX) with a team of four, integrating APIs, securing user authentication, optimizing database performance, and delivering a responsive design.
- Constructed a high-performance web app, NewsX, utilizing the MERN stack, cutting page load time by 40% and enhancing user retention within the first quarter post-launch.
- Coordinated cross-functional teams using Agile methodologies, also reducing project delivery time .
- Leveraged news APIs for seamless data flow and transactions, ensuring secure and efficient operations.

ACADEMIC PROJECTS

IntegrityWatch   Feb 2024 – April 2024
Developed a robust File Integrity Monitoring (FIM) system enhancing file security by tracking changes,deletions, and additions in real-time. It alerts users via SMS, logs events for comprehensive records and features automated incident reporting, ensuring the integrity and security of critical files.
- Logged over 500 events with detailed weekly reports, achieving 98% up time for monitoring services.
- Implemented SMS notifications via Twilio, alerting users within 30 seconds of changes.
- Architectured and implemented end-to-end web applications , integrated front-end interfaces, improving user experience scores by 50% and decreasing load time

Personal Medical History Tracker   Aug 2023 – Oct 2023
Collaborated with a team of 3 design and developed a secure personal medical history tracker website with report storage a Chat bot interface, and informative medical pages
- Set automated reminders for medical appointments and medication schedules via email, SMS, or in-app notifications, enhancing user engagement and adherence to health routines
- Implement AES encryption for stored medical records and chatbot interactions, ensuring data privacy and compliance with healthcare regulations.

Kheti Shayak Android Application   Nov 2023 – May 2024

Collaborated with a team of 3 to develop "Kheti Sahayak" a platform focusing on EPICS connecting farmers with essential tools and facilitating job opportunities through community engagement and sustainable farming practices.

- Provided farmers with easy access to essential tools,which results in increase in tool availability.
- Enabled farmers to save costs on tool purchases, promoting sustainable farming and reduction in farming expenses.
- Formulated a robust feedback mechanism leading to a reduction in disputes and misunderstandings between tool lenders and borrowers.
- Promoted Eco-friendly farming practices, resulting in a 20% reduction in environmental impact

CO-CURRICULARS

- HackerRank 5 star coder in Java,MySQL,Python
- Leetcode Global Rank:2,05,108
- GFG Global Rank:83,369

EXTRA-CURRRICULARS

- Semi finalist in intra-university chess tournament

RESPONSIBILITIES

- Core member of the Fusion Club event management Team
- Organized and conducted monthly meetings for the club
- Successfully organized 6 non-technical events throughout the year
- Initiated and coordinated monthly networking mixers, increasing cross-departmental collaboration

EXTRA -CURRRICULARS

Hobbies

Playing chess, Reading manga, Sketching

Languages

English,Hindi,bengali