Priyank Pahwa

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PROFESSIONAL SUMMARY

Software Developer with hands-on experience building production-level applications across the AI, blockchain, and IoT domains. Created Seriva, an AI chat with real-time 3D avatar interaction; PharmaFleet, a sensor-integrated inventory system with Power BI analytics; and WePay, a secure blockchain-based payment platform. Skilled in Solidity, React.js, Node.js, SQL, and Python, with a focus on practical implementation and clean system design.

EDUCATION

Manipal University Jaipur, B.Tech. in Computer Science — Sep 2022 – Jul 2026

- GPA: 8.46/10.0
- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory

Blue Bells Model School, Higher Secondary Education — Apr 2021 – Jun 2022

- GPA: 8.0/10.0

PROJECTS

Seriva – AI Companion with 3D Avatar Interaction | Github — Jun 2025 - Present

Full Stack and AI Product Developer

- Developed a web-based AI wellness assistant integrating a real-time 3D avatar with lip-syncing, emotion detection, and conversational AI, achieving 85% accurate emotion recognition during live interactions.
- Engineered backend with Express.js + cloud LLMs (OpenRouter, Groq), supporting secure user authentication and modular APIs for chat, journaling, and wellness tools.
- Implemented a secure, per-user, server-side encryption system using Google Secret Manager and Firestore to ensure complete user privacy.
- Integrated Microsoft Azure Neural TTS to generate lifelike voice output with emotion control, reducing response latency to <500ms for seamless user interaction.

PharmaFleet – Smart Medicine Inventory System | Github — Feb 2025 - Apr 2025

IoT Engineer and Frontend Developer

- Designed an IoT-enabled inventory management system for pharmaceuticals, using RFID/barcodes to track medicines in real time, reducing manual errors by 70%.
- Developed a ReactJS dashboard integrated with carton sensors for traceability, anti-tampering detection, and environmental monitoring (temperature, humidity).
- Implemented backend logic in Node.js to process scan data, enabling instant inventory updates with <1s latency per scan.
- Improved supply chain visibility and regulatory compliance by providing audit-ready reports, enhancing operational efficiency by 30% during pilot testing.

WePay – Blockchain Transaction Application | Github — Jan 2025 - Mar 2025

Blockchain and Full Stack Developer

- Built a decentralized web application for secure peer-to-peer transactions with a dashboard, accounts, transactions, budgets, and reports modules.
- Implemented core features including send, receive, and request money with simulated Ethereum transactions via Ganache, processing 100+ test transactions with zero failures.
- Designed frontend in React.JS and Solidity with a clean UI and local blockchain backend, ensuring 100% offline usability for demos and training purposes.
- Enhanced transparency and trust by adding detailed reports and transaction histories, enabling users to track 100% of financial activities securely.

SKILLS

Languages: Python, Java, C++, JavaScript, PHP

AI/ML: LLM Integration, Computer Vision (MediaPipe), NLP, TTS

Web Development: React.js, Node.js, Express.js, Three.js, TailwindCSS

Databases: Firebase, MySQL

Blockchain: Solidity, Smart Contracts, Web3, DApps

Tools: Git, Docker, AWS, Azure, GCP