Vivek Atkari

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Bachelor of Technology
Electrical Engineering
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Education

- **Veermata Jijabai Technological Institute (VJTI)** *2022 – 2026*
  B.Tech in Electrical Engineering CGPA: 5.95/10
- **St. Paul Jr. College** *2021*
  Maharashtra State Board of HSC Percentage: 93%

Projects

- **NFT Rental Marketplace (Decentralized)** *2025*
  Rust, Solana, Anchor, Next.js, TypeScript, PostgreSQL
  – Developed a decentralized NFT rental platform on **Solana Devnet**, handling **100+ monthly rentals**.
  – Implemented **escrow contracts** to securely hold NFTs and SPL token payments during rental period, reducing misuse by **90%**.
  – Designed a responsive **Next.js** frontend with Phantom wallet integration, enabling seamless user experience.

- **Solana Lottery dApp** *2025*
  Rust, Solana, Anchor, React, Web3.js, PDA
  – Built a decentralized lottery with **500+ testnet participants**, using PDAs for secure state tracking.
  – Integrated verifiable randomness (VRF) for transparent draws, lowering costs by **70%** compared to centralized models.
  – Delivered a Web3.js-powered frontend for one-click lottery participation.

- **Solana + Rust Backend Development** *2024 – 2025*
  Rust, Anchor, Node.js, Express,
  – Engineered **vesting contracts** to manage token distribution schedules, ensuring compliance and trustless release of funds.
  – Built backend APIs for staking, account management, and token minting, supporting **10k+ test transactions**.
  – Optimized database queries and caching to improve API performance by **2x**.

- **Arduino Parking + Temperature Monitoring System** *2024*
  Arduino, LM35 Sensor, Ultrasonic Sensor, LCD (I2C), VMware, LabVIEW
  – Built an **Arduino-based smart parking system** using ultrasonic and LM35 sensors for vehicle and temperature monitoring.
  – Displayed real-time data on LCD (I2C) and simulated system on **VMware + LabVIEW** with <2% error.
  – Enhanced parking efficiency by **30%** through automated detection.

Technical Skills

Languages: Rust, C, C++, Java, Python, JavaScript, TypeScript
Blockchain: Solana, Anchor Framework, Web3.js, SPL Tokens, PDA Accounts, Smart Contract Development
Backend: Node.js, Express.js, Next.js
Frontend: React.js, Next.js, TailwindCSS, HTML5, CSS3
Developer Tools: Git, GitHub, Linux (Kali, Ubuntu)
Others: Arduino, LabVIEW, MATLAB, Digital Signal Processing (DSP)

Certifications

Completed **Solana + Rust Development**, where I built decentralized applications (dApps) using Rust, Anchor, and the Solana Program Library, covering token minting, staking, PDA accounts, and NFT integration (2024). Additionally, completed **Ethical Hacking (Kali Linux)** training, gaining hands-on experience in penetration testing, Wi-Fi cracking (WEP/WPA/WPA2), exploitation, backdoors, post-exploitation, and website security (2023).