

Satyaprakash Patel

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PROJECTS

• Transparent Cents — Decentralized Charity Governance Platform

Java, Spring Boot, PostgreSQL, Solidity, Web3j, JWT, Hibernate

- Spearheaded development of a full-stack blockchain-based donation platform enabling transparent, donor-governed funding.
- Engineered the backend with Spring Boot and Hibernate, integrating JWT-based authentication for **3 distinct user roles**.
- Authored **4 custom Solidity smart contracts** managing donation flows, expense logging, and campaign-level fund governance. Integrated Web3j for blockchain synchronization, enabling rule-based fund release through **70%** donor consensus.
- Architected a trust and anti-fraud system using automated blacklisting and immutable on-chain audit trails.

• Algo Trading System — Automated Crypto Market-Making & Scalping Bots

Go, CoinDCX API, AWS EC2, REST APIs, Bash

- Constructed a modular trading framework supporting both spot and futures markets across **500+ crypto pairs**.
- Programmed multiple bot types (scalping, grid, adaptive market-making) executing trades with **under 10ms** latency.
- Built bots that scrape news and sentiment data from real-time platforms (Twitter, news APIs) to anticipate market shifts.
- Deployed monitoring bots that alert on high-profit opportunities and send real-time trade notifications.
- Deployed on AWS EC2 with auto-restart and fault tolerance, achieving **99.9%** uptime.

• Cryptic Hunt — Interactive CTF-Style LAN Game

Bash, Linux, SSH, Networking, Cybersecurity

- Orchestrated a large-scale Capture-the-Flag LAN event with **100+** concurrent players.
- Crafted **15+ unique puzzle levels** involving reverse engineering, Linux privilege escalation, and system exploitation.
- Developed an interactive shell-based interface using SSH for a realistic, hacker-style gaming experience.
- Implemented custom scripts in Bash to manage player sessions, progress tracking, and secure flag validation.

TECHNICAL SKILLS

- **Languages:** Java, Python, SQL, Bash, Shell Scripting
- **Frameworks & Libraries:** Spring Boot, Spring Security, Hibernate, Web3j, JWT Auth, RESTful APIs
- **Blockchain & Web3:** Solidity, Ethereum (Sepolia, Polygon), Smart Contracts, On-Chain Event Tracking
- **Tools & Platforms:** Arch Linux, Docker, AWS (EC2, S3), Git/GitHub, Postman, IntelliJ IDEA, PgAdmin, Nginx
- **Databases:** PostgreSQL
- **Security & CTF Tools:** nmap, Wireshark, Burp Suite, Ghidra, radare2, Hashcat, John the Ripper, Metasploit, Gobuster, dirsearch, Netcat, tcpdump
- **Other Expertise:** System Design, API Integration, CI/CD Pipelines, Linux SysOps, Algorithmic Trading Logic, Cloud Scaling

ACHIEVEMENTS

- Achieved a 300+ day streak and Knight badge (rating 1865) on LeetCode with over 500 Data Structures & Algorithms problems solved.
- Successfully completed all **34 levels** of the **OverTheWire Bandit** wargame, mastering Linux privilege escalation and CTF fundamentals.
- Generated over **INR 2,00,000** in verified post-loss profits within 4 months through algorithmic crypto trading bots (2k capital).

EDUCATION

• Jaypee University of Engineering and Technology

B.Tech in Computer Science and Engineering

Guna, MP

Expected July 2027

CERTIFICATIONS

• Oracle Cloud Infrastructure Architect Associate

View Credential

• Oracle Certified DevOps Professional

View Credential

Oracle Certified