Satyaprakash Patel

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Projects

- **Transparent Cents — Decentralized Charity Governance Platform**
  Java, Spring Boot, PostgreSQL, Solidity, Web3j, JWT, Hibernate
  - Led full-stack blockchain donation platform with transparent, donor-driven governance.
  - Back-end in Spring Boot, Hibernate, JWT for 3 user roles.
  - Developed 4 Solidity smart contracts for donations, expense logging, fund governance.
  - Web3j sync for rule-based fund release by 70% donor consensus.
  - Built trust/anti-fraud with auto-blacklisting and on-chain audit trails.
- **Algo Trading System — Automated Crypto Market-Making & Scalping Bots**
  Go, CoinDCX API, AWS EC2, REST APIs, Bash
  - Created trading framework for spot/futures across 500+ crypto pairs.
  - Multiple bot types with sub-10ms latency.
  - Integrated news & sentiment scraping for market prediction.
  - Deployed monitoring/alert bots for high-profit opportunities, real-time notifications.
  - Deployed on AWS EC2, auto-restart, fault-tolerant, 99.9% uptime.
- **Cryptic Hunt — Interactive CTF LAN Game**
  Bash, Linux, SSH, Networking, Cybersecurity
  - Organized capture-the-flag LAN event with 100+ players.
  - Designed 15+ puzzle levels (reverse engineering, Linux priv-esc, system exploitation).
  - Built interactive SSH shell game.
  - Automated player sessions, tracking, and flag validation in Bash.

Technical Skills

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

Achievements

- 300+ day LeetCode streak (Knight, 1865), 500+ DSA problems solved.
- Completed all 34 levels of OverTheWire Bandit (Linux priv-esc/CTF).
- Generated INR 2,00,000+ verified profits in 4 months via algorithmic crypto trading (from 2k capital).

Education

- **Jaypee University of Engineering and Technology** — Guna, MP
  B.Tech in Computer Science and Engineering — *Expected July 2027*

Certifications

- **Oracle Cloud Infrastructure Architect Associate** — View Credential
  Oracle Certified
- **Oracle Cloud DevOps Professional** — View Credential
  Oracle Certified