Jagadish Sunil Pednekar

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Skills

Languages: Java, JavaScript, Python, C, C++, HTML, CSS
Frameworks: React.js, Node.js, Next.js, Express.js, GraphQL
Databases: SQL, PostgreSQL, Supabase, MongoDB
Tools: VS Code, Git, Jupyter Notebook, Docker, GitHub, Figma, Eclipse, Pycharm
Coursework: DBMS, Operating Systems, Computer Networks, Algorithms, Data Structures
Soft Skills: Leadership, Public Speaking, English Proficiency, Product Management

Experience

Open Source Developer – *Summer of Bitcoin 2025, python-bitcoin-utils*   **May 2025 – July 2025**

- Implemented Partially Signed Bitcoin Transactions (PSBT) support in `python-bitcoin-utils`, aligning with BIP-174 to enable multi-party signing workflows.
- Designed and built PSBT serialization/deserialization modules, ensuring compatibility with Bitcoin Core standards.
- Added PSBT input/output data structures supporting Taproot, SegWit, and legacy transactions.
- Authored examples to help developers experiment with PSBT flows.

Tech Stack: Python, Bitcoin Protocol, PSBT (BIP-174), Taproot, Git, Testnet, Signet, Bitcoin Node

Projects

Payroll Management System — COBOL, GnuCOBOL, CLI, File Systems, Terminal

- Terminal-based enterprise payroll system with secure admin authentication, CRUD operations, salary calculations with overtime/tax deductions, and automated CSV report generation with 99.9% accuracy.
- *Source Code:* https://github.com/JAGADISHSUNILPEDNEKAR/Payroll_Management_System

Guess The Number Game — JavaScript, HTML5, CSS3, Canvas API, DOM Manipulation

- An interactive browser-based game featuring single-player and multiplayer modes with real-time performance classification, dynamic leaderboards, and visual feedback through canvas-confetti animations.
- Engineered intelligent hint system reducing average guess attempts by 40%, with responsive UI/UX design supporting 2-10 concurrent players across multiple competitive rounds with score tracking.
- *Source Code:* https://github.com/JAGADISHSUNILPEDNEKAR/Guess-the-number
- *Live Link:* https://jagadishsunilpednekar.github.io/Guess-the-number/

Blockchain Lottery Platform — Solidity, Ethereum, React, Chainlink VRF, Ethers.js, Hardhat

- A fully decentralized gaming platform featuring on-chain lottery, Blackjack, and Bingo with provably fair randomness using Chainlink VRF oracle integration and automated smart contract payouts.
- Architected gas-optimized smart contracts reducing transaction costs by 30%, implementing reentrancy protection and comprehensive test coverage achieving 95%+ code coverage for secure, transparent gaming operations.
- *Source Code:* https://github.com/JAGADISHSUNILPEDNEKAR/blockchain-lottery-platform

Education

B.Tech in Computer Science and Engineering   **2024–2028**
Polaris School of Technology, Bangalore

12th Grade (Karnataka State Board)   **2022–2024**
Arjuna Science PU College, Dharwad – 95.2%

10th Grade (CBSE)   **2021–2022**
Atomic Energy Central School, Kaiga – 91.6%

Achievements

- Solved 140+ problems on LeetCode.
- Secured AIR 180 in IMUCET.
- Secured AIR 225 in JEE Mains B.Plan.

Open Source Participation

- Link to all my Open Source Contributions
- Repository of Personal Projects

Courses & Certifications

- Blockchain Basics – Certificate
- Build an IoT Blockchain Network for a Supply Chain – Certificate
- HubSpot Marketing Hub Software – Certificate
- Supervised Machine Learning: Regression and Classification – Certificate