Karan Upadhyay

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PROFESSIONAL SUMMARY

Software Developer with over **2** years of experience in **full-stack** development using the **MERN** stack and a solid foundation in **Blockchain technology**. Experienced in designing and implementing scalable applications and auditing smart contracts to ensure security and efficiency in decentralized systems. Proficient in **data structures and algorithms**, with a strong understanding of **agile** development practices. Dedicated to leveraging AI and blockchain technologies to create innovative solutions in the Web3 ecosystem.

EDUCATION

B.Tech in Information Technology
University School of Information, Communication and Technology, GGSIPU – New Delhi
Expected Graduation: August 2026 | SGPA: 8.1/10

RSV Roop Nagar No.4 – New Delhi
Completion: April 2021 | Score: 90%

SKILLS

Languages: Java, JavaScript, Python, Dart, Solidity, Rust
Fullstack: React.js, Next.js, MongoDB, Node.js, Flutter
Web3 Technologies: Ethereum, Solana, Polygon, Web3.js, Ether.js, Metamask, Hardhat, Truffle, Chai, IPFS
Version Control & Tools: Git, Github, Vercel, Visual Studio Code, IntelliJ IDEA, Remix IDE, Android Studio

EXPERIENCE

Frontend Development Intern
CSR-Box – Remote |*Live: Wecare.donations* | *Certificate*   July 2024 – August 2024
• Led frontend development for WeCare, an **SDG-driven** resource donation platform facilitating donations of food, clothing, books, and volunteering services.
• Integrated Email.js for automated user communication and maintained website responsiveness.

AI & Cloud Research Intern
Edunet Foundation – Remote | *Certificate*   June 2024 – July 2024
• Researched NFT verification techniques using generative **AI** and **computer vision**, achieving **95%** accuracy in detecting fraudulent digital assets. Contributed to the design of smart contracts for **ERC-20** and **ERC-721** tokens, enhancing security and compliance for digital asset transactions.
• Collaborated with cross-functional teams to identify and implement best practices in blockchain technology, driving improvements in digital asset security and integrity.

PROJECTS

AmberToken *(Repository: Amber_token)*   October, 2023
• Developed **AmberToken**, a capped ERC-20 token on the Polygon testnet with a total supply of **100 million**, integrating burnable functionality for supply control.
• Implemented a block rewards mechanism to incentivize miners, offering a structured rewards system based on a fixed percentage for successful block validations.
• Established owner privileges for adjusting **block rewards** and the option to **self-destruct** the contract, ensuring flexibility in governance.
Technologies used: JavaScript, Solidity, Remix, Hardhat, Ether.js, Chai, Visual Studio Code.
Token Details: oklink.com

BlockTalk – Decentralized Chat Application | *Live: block_talk* |*Repository: ChatContracts.sol*   July – September, 2024
• Architected a next-gen Web3 chat platform with React and Next.js, enabling decentralized, secure messaging on the **Polygon-Amoy** testnet.
• Developed and deployed Solidity smart contracts via Hardhat, ensuring immutability and **end-to-end encrypted** cryptographically verified messaging.
• Integrated **MetaMask** for decentralized **authentication** and seamless wallet connectivity, facilitating secure interactions within the **Ethereum Ecosystem.**
• Enabled transaction driven messaging for security, along with **blockchain-based storage** and **automated network switching** to testnet.
Technologies used: Web3js, React.js, Next.js, Solidity, Metamask, Hardhat, Visual Studio, Git, Figma.
Block Explorer: oklink.com

DelhiCast *(Repository: delhi_cast)*   Aug – October, 2023
• Developed "Delhi Cast" using Flutter framework, integrating APIs for real-time weather data catering to Delhi users.
• Architected a user-friendly interface adhering to Material Design principles.
• Automated weather updates along with a responsive UI compatible with any device.
Technologies used: Dart, Flutter, OpenWeatherMap API, Android Studio, Visual Studio Code.

CERTIFICATIONS

"Bitcoin 101" by **Blockchain Council** | *certificate*   March, 2024
Proficient in **Bitcoin fundamentals**, security, and blockchain implementation, as validated by the certificate ID:98894855.

Infosys, *Infosys Springboard* | *certificate*   March, 2024
Explored Solidity programming, DApp development, and **Ethereum** blockchain implementation.

Microsoft Corporation, Azure AI Services | *certificate*   January, 2024
Certified in leveraging Azure AI Services for developing effective natural language processing (**NLP**) solutions.