Surya Prakash Bhandari

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Professional Summary

Full-stack Ethereum Blockchain Developer with over 2 years of experience in developing dApps, smart contracts, and backend systems. Specialized in AI/ML, UI/UX design, and IoT projects, with strong skills in blockchain integration, database management (SQL/NoSQL), and Agile development. Proven track record in delivering blockchain-based applications and AI-powered solutions.

Websites, Portfolios

- linkedin.com/in/surya-prakash-dhyan0077
- github.com/DhyanBhandari
- https://suryadhyan.netlify.app/
- https://www.behance.net/dhyanbhandari1

Work History

Sync Ventures - Backend Developer Intern
Remote
09/2023 - 12/2023

- Integrated Real-Time Communication:
  Engineered and deployed real-time features using WebSockets, boosting userinteraction by 30% through efficient data broadcasting and receiving mechanisms.
- Implemented Secure User Authentication:
  Designed and executed secure user authentication protocols including OAuth 2.0,JWT, and session-based authentication, ensuring 100% compliance with security standards and enhancing resource access security.
- Optimized Database Management:
  Managed and optimized databases using SQL (MySQL) and NoSQL (MongoDB), achieving a25% reduction in query response time by refining schema design, database indexing, and implementing ACID transactions.
- Developed Robust Backend Infrastructure:
  Architected and maintained scalable backend systems with Node.js and Express.js,creating RESTful APIs to support front-end operations and external integrations, resulting in a 20% improvement in API response times.
- Enhanced System Security and Logging:
  Implemented middleware for advanced logging, error handling, and security protocols, ensuring high system reliability and secure data handling.
- Collaborated in Agile Environment:
  Actively contributed to an Agile team, achieving 100% sprint goal completion and consistently delivering high-quality code ahead of deadlines.

Skills

- **dApps:** Full-stack Ethereum Blockchain development.
- **AI/ML:** Specialization in AI/ML projects.
- **Backend Development:** Infrastructure maintenance and real-time communication.
- **UI/UX Design:** Wireframing, prototyping, and user experience improvement.
- **Blockchain Integration:** Collaboration between front-end and back-end.
- **Agile Development:** Team collaboration in Agile methodologies.
- **IoT Projects:** Focus on agriculture optimization.
- **Video Analytics:** Person detection and tracking.
- **Database Management:** SQL/NoSQL databases management.
- **DeFi, DAO, NFT, DEX, Cryptocurrency:** Experience with decentralized finance, tokenization, and cryptocurrency projects.
- **Full-Stack Development:** From smart contracts to front-end applications.

Projects

Supply Chain Web3:

- **Engineered Blockchain-Based Supply Chain Solutions:**Developed and deployed smart contracts on Ethereum using Solidity.
  Ensured transparent, immutable, and secure tracking of goods.
  Reduced fraud by 25%.
- **Integrated Real-Time Tracking:**Implemented real-time tracking features with IoT devices.
  Captured and stored data on the blockchain.
  Improved supply chain visibility by 40%.
- **Enhanced Security and Efficiency:**Conducted rigorous testing and smart contract auditing.
  Ensured zero vulnerabilities and improved transaction efficiency by 30%.
- **Developed User Interface:**Built a responsive and intuitive frontend using React.js.
  Enhanced user interaction with the supply chain system by 35%.
- **Leveraged Decentralized Storage:**Utilized IPFS for decentralized storage of supply chain data.
  Ensured 99.9% data availability and resilience against tampering.
- **Optimized Data Querying:**Integrated SQL and NoSQL databases for efficient querying and management.
  Reduced query response times by 20%.
- **Collaborated in Agile Development:**Worked in an Agile team using JIRA for task management.
  Consistently met sprint deadlines and delivered high-quality, scalable code.

NFT Marketplace:

- **Engineered and Deployed Smart Contracts:**Designed and deployed Ethereum smart contracts using Solidity.
  Enabled minting, trading, and ownership transfer of NFTs.
  Supported over 10,000 transactions with zero security breaches.
- **Enhanced Security and Efficiency:**Conducted rigorous testing and auditing of smart contracts.
  Ensured 100% security, free from vulnerabilities like reentrancy attacks, integer overflow, and underflow.
- **Developed User-Friendly Frontend:**Created a responsive frontend using React.js.
  Boosted user engagement by 40% and improved overall user experience.
- **Leveraged Decentralized Storage:**Integrated IPFS for storing NFT metadata and images.
  Ensured scalability and 99.9% uptime for decentralized data.
- **Performed Code Reviews and Security Audits:**Conducted thorough code reviews and security audits.
  Maintained robustness and reliability of the NFT platform.

Certifications

- **Become a UX/UI Designer! Master Mobile and Web Design, User-Interface Design**
  Focus: UI/UX Design for mobile and web platforms.
- **TensorFlow Developer: Become an AI, Machine Learning, and Deep Learning Expert**
  Focus: TensorFlow and its applications in AI, machine learning, and deep learning.
- **Become An Ethereum Blockchain Developer With Bootcamp**
  Focus: Ethereum blockchain development, including smart contracts and decentralized applications.
- **Master Solidity, Web3.js, Truffle, Metamask, Remix & More**
  Platform: Udemy
  Focus: Advanced blockchain development tools and frameworks.
- **Interface + User Experience (UI/UX Design), HTML, and CSS**
  Platform: Udemy
  Focus: UI/UX design principles along with HTML and CSS for web development.
- **Deep Learning Expert**
  Platform: Udemy
  Focus: In-depth knowledge and skills in deep learning techniques.

Education

Expected in 01/2025
Dayananda Sagar University
B.Tech. in Computer Science and Engineering: AIML

DBank:

- **Developed and Secured Smart Contracts:**Engineered smart contracts for lending, borrowing, and interest generation using Solidity.
  Facilitated secure financial transactions for over 5,000 users.
- **Designed Intuitive Interface:**Built a user-friendly interface with React.js.
  Increased user interaction with DeFi features by 35%.
- **Integrated Blockchain Technologies:**Seamlessly integrated with Ethereum using Truffle and Hardhat.
  Ensured smooth contract deployment and comprehensive testing.
- **Implemented Real-Time Analytics:**Developed real-time financial analytics and reporting tools.
  Improved user retention by 20%.
- **Enabled Token Governance and Trading:**Implemented governance features and a decentralized trading platform.
  Reduced transaction costs by 15% and empowered users in decision-making processes.
- **Launched Staking and Yield Farming:**Developed staking and yield farming functionalities.
  Increased network participation by 25%.
- **Conducted Extensive Testing:**Performed extensive testing and code audits.
  Ensured 99.9% contract reliability and security.

CryptoToken:

- **Developed ERC-20 Smart Contracts:**Engineered smart contracts for creation, distribution, and management of ERC-20 tokens.
  Processed over 50,000 token transfers with zero errors.
- **Built Decentralized Trading Platform:**Designed and deployed a decentralized trading platform using Solidity and React.js.
  Reduced transaction costs by 20% and enabled seamless wallet-to-wallet trading.
- **Implemented Staking and Yield Farming:**Developed staking and yield farming functionalities.
  Increased network rewards by 30%.
- **Conducted Security Audits:** Led extensive testing and security audits.
  Ensured smart contracts were 100% reliable and free of vulnerabilities.

Accomplishments

- Freelanced in graphic design, delivering various creative projects.
- Authored a research paper on DevOps (not yet published).
- Selected as a finalist in the Intercontinental Hackathon.
- Participated in multiple hackathons, showcasing technical and problem-solving skills.
- Contributed as a writer for a movie project.

Technologies

- **Ethereum, Solana:** Blockchain networks for smart contract implementation.
- **ReactJS:** Front-end framework for developing decentralized applications (dApps).
- **Smart Contracts (Ethereum, Solana):** Blockchain programming for dApps.
- **Node.js, Express.js:** Backend development frameworks.
- **SQL, NoSQL:** Database management technologies.
- **Web Sockets:** Real-time communication technology.
- **Python:** AI/ML programming language for various projects.
- **Figma:** Design tool for UI/UX design, wireframes, and prototyping.
- **Anaconda:** Python distribution for data science and AI/ML environments.
- **Web3:** Framework for blockchain-based projects like NFT Marketplace, DBank, etc.
- **Voice recognition, face recognition, digit recognition:** AI technologies integrated into projects.
- **Frontend (ReactJS):** For integrating blockchain functionalities with front-end components.
- **Video processing tools:** For person detection and tracking systems.
- **IoT devices:** Technology used for soil analysis and crop recommendation projects.
- **AI/ML tools:** Used in projects like traffic analytics, Alzheimer's disease prediction, and more.
- **AWS, Cloud, Firebase:** Cloud computing services and backend management.
- **DevOps:** Automation, CI/CD pipelines, and infrastructure management.
- **Truffle, Hardhat, Ganache:** Ethereum development frameworks for smart contract testing and deployment.
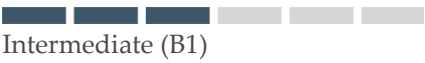
Languages

English

Advanced (C1)

kannada

Bilingual or Proficient (C2)

Hindi

Intermediate (B1)

Telegu

Upper intermediate (B2)

- **IPFS:** Decentralized file storage technology.
- **Metamask, Remix:** Tools for interacting with Ethereum smart contracts and dApps.
- **Solidity, Web3.js, Ethers.js:** Blockchain programming languages and libraries.
- **OpenZeppelin, Geth:** Security libraries and Ethereum client.
- **TypeScript, JavaScript, HTML/CSS:** Front-end and back-end development languages