

MUTHUKUMAR A

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OBJECTIVE

To work effectively and collaboratively toward achieving organizational goals by utilizing my experience in front-end development, while continuously learning new technologies for personal and professional growth.

PROFILE SUMMARY

- MERN Stack Developer with 2+ years of experience building full-stack web applications using MongoDB, Express.js, React.js, and Node.js.
- Skilled in crafting responsive, user-friendly interfaces using React.js, Redux, HTML5, CSS3, JavaScript (ES6+), Typescript, Bootstrap, and Material UI, aligned with modern UI/UX and W3C standards.
- Experienced in developing and consuming RESTful APIs, managing MongoDB with Mongoose, and securing applications with JWT authentication.
- Proficient with tools like Git, GitHub, Postman, and VS Code. Experienced with real-time web features via Socket.io for chats, games, notifications, and live data updates.
- Strong debugging, code optimization, and performance enhancement skills using Chrome DevTools, React Profiler, and backend logging tools.

TECHNICAL SKILLS

- **Frontend:** React.js, Redux, Zustand, HTML5, CSS3, Typescript, JavaScript (ES6+), Bootstrap, Material UI
- **Backend:** Node.js, Express.js, RESTful APIs, WebSockets
- **Database:** MongoDB, Mongoose
- **Tools & DevOps:** Git, GitHub, AWS, Postman
- **IDE:** Visual Studio Code, Sublime Text
- **Blockchain:** Web3.js

EDUCATION

B.Tech in Electrical and Electronics Engineering

Ponnaiyah Ramajayam Institute of Science & Technology

2018 – 2022

EXPERIENCE

Software Engineer
Osiz Technologies Pvt. Ltd., Madurai
July 2023 – Present

PROJECTS

BTSMAART – Crypto Staking & Multi-Level Referral System

Stack: MongoDB, Express.js, Node.js, Angular

Responsibilities:

- Developed and deployed secure Solidity smart contracts for staking and referral rewards.
- Designed daily reward distribution logic based on amount and 1-year lock-in period.
- Built a 31-level hierarchical referral tracking algorithm.
- Automated referral payouts using Agenda.
- Integrated MetaMask for crypto transactions.
- Implemented admin panel with JWT authentication and IP whitelisting.
- Optimized DB queries for performance and accurate payout calculations.

ONIMONS – NFT Dragon Breeding & Battle Game

Stack: MongoDB, Express.js, Node.js, React.js, Unity, Solidity, Web3.js

Responsibilities:

- Created an NFT marketplace for dragon trading with MetaMask integration.
- Built a breeding system where two NFTs generate a new egg NFT after cooldown.
- Designed smart contracts for breeding logic with genetic trait inheritance and ETH-based fees.
- Developed a Unity-based PvP battle game connected to the Node.js backend.
- Integrated real-time battle result sync and in-game reward token system (ERC-20).
- Enabled secure claim and redemption functions using smart contracts.
- Enhanced data retrieval with optimized MongoDB queries and JWT-protected APIs.