

# NAVEEN PANDIAN

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## About Me

Blockchain and AI-focused full-stack engineer with experience designing and building decentralized applications, real-time systems, and AI-powered platforms. Strong foundation in frontend engineering (React, Next.js, Vite, JavaScript, TypeScript) with a focus on scalable, performant, and user-centric web applications.

Hands-on experience developing smart contracts using Solidity, integrating wallet-based authentication, and working with EVM-compatible blockchains. Skilled in decentralized storage solutions including IPFS and Arweave, and in implementing secure, role-based access and verification workflows on-chain.

Proficient in backend development using Node.js, Express, and databases such as MongoDB and PostgreSQL, along with real-time communication systems (WebSockets, Socket.io). Exposure to AI and machine learning workflows, including PyTorch-based models, AI agents, and retrieval-augmented generation (RAG) systems, with a growing focus on AI-blockchain integration.

Experienced hackathon participant and open-source contributor with a proven ability to rapidly prototype, iterate, and deliver production-ready solutions under tight deadlines, combining strong engineering fundamentals with practical problem-solving..

## Education

### Jaya Engineering College

July 2023 – May 2027

Bachelor of Engineering in Computer Science

Chennai, Tamil Nadu, India

- Currently in 3rd year, learning advanced concepts in computer science and engineering
- Focus areas: Web Development, Blockchain Technologies, Software Engineering, Database Systems, Artificial intelligence

## Technical Skills

**Programming Languages:** HTML5, CSS3, JavaScript, TypeScript, C++, Python, Java, Rust, Go, cirmc, Noir, solidity, move

**Frontend Frameworks:** React, Vite, Next.js, Svelte, Tailwind CSS, Bootstrap, Material UI

**Backend & Databases:** Node.js, Express, PostgreSQL, MongoDB, Firebase, FastAPI

**Storage:** IPFS, Arweave, MongoDB, PostgreSQL

**AI/MLs:** PyTorch, AI Agents, RAG Systems, Model IntegrationL

**Blockchain:** Web3, Smart Contracts, DApps, Blockchain Integration, Solidity, EVM, Smart Contracts, Wallet Integration, Web3 Authentication

**Tools & Technologies:** Git, GitHub, VS Code, Docker, Vercel, npm, Framer Motion

**Development Practices:** Responsive Design, RESTful APIs, Agile Development, Version Control, SEO Optimization, Graph QL

**Other:** System Design, Role-Based Access Control, API Integration, Rapid Prototyping

## Projects

### Zun | react.js, ethers, snarkjs, wagmi, Tanstack-Query, Shadcn UI

[Live Demo](#)

- ZVault is a comprehensive DeFi protocol that combines zero-knowledge proofs for shielded swaps, advanced custom identity verification, and encrypted off-chain receipt storage using Filecoin/IPFS. The protocol integrates multiple cutting-edge technologies to create a privacy-first, Sybil-resistant trading environment with our own innovative on-chain identity system.
- Implemented efficient data fetching and caching using Tanstack-Query for optimal performance
- Designed responsive UI components with Shadcn UI and Tailwind CSS for seamless cross-device experience
- Built robust backend with ethers and wagmi

### ALL 2 1 College website | react.js, TypeScript, Framer Motion, Shadcn UI

[Live](#)

- Created a professional fullstack college website with modern animations using Framer Motion
- Implemented centralized configuration system for easy content management and updates
- Optimized for SEO with proper meta tags, semantic HTML, and performance best practices
- Integrated chart.js and auth for professional usecase

### ScioFi | Various Technologies

[Live Demo](#)

- Active Core Doa chain project with graphed connection
- Collaborated with core Doa team worldwide to improve code quality and add new features
- Maintained clean code standards and comprehensive documentation for community projects

## Professional Experience

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### Freelance Web Developer

2023 – Present

*Self-Employed*

*Remote*

- Delivered custom web solutions for clients using modern JavaScript frameworks and responsive design principles
- Specialized in building pixel-perfect, user-friendly interfaces with React, Next.js, and Tailwind CSS
- Managed full project lifecycle from requirements gathering to deployment and maintenance
- Maintained strong client relationships through efficient delivery and attention to detail

### Blockchain & AI Full-Stack Engineer

2023 – Present

*Independent Builder / Hackathon Projects*

*Remote*

- Designed and developed end-to-end Web3 applications using React, Next.js, TypeScript, Node.js, and Solidity across frontend, backend, and smart contract layers
- Built and deployed EVM smart contracts with role-based access control, on-chain verification workflows, and wallet-based authentication using ethers.js and RainbowKit
- Integrated decentralized storage solutions including IPFS and Arweave for secure document, media, and metadata persistence
- Implemented real-time systems using WebSockets and Socket.io to support live chat, multiplayer interactions, and synchronized state updates
- Developed AI-powered features such as AI agents, retrieval-augmented generation (RAG) pipelines, and ML model inference using PyTorch
- Delivered production-ready prototypes within 24–72 hour hackathon timelines with a focus on scalability, security, and user experience
- Collaborated with cross-functional teams, owning architecture decisions, smart contract design, backend APIs, and frontend delivery
- Maintained and documented projects on GitHub, following best practices for version control, testing, and iterative development

### Technical Content Creator

2023 – Present

*Dev.to Platform*

*Remote*

- Published technical articles on web development, trending tech stacks, and JavaScript guides
- Shared knowledge on modern frameworks, best practices, and development tips with the developer community
- Engaged with readers through comments and discussions to help solve technical challenges

## Additional Information

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**Roles & Activities:** Freelancer, Technical Blogger, Content Creator, Open Source Contributor

**Interests:** Coding, Music/Singing, Watching Football, Tech Blog Writing, Creating Innovative Projects

**Languages:** English (Fluent), Tamil (Native), Hindi, French

**Online Presence:** Active on GitHub, LinkedIn, Twitter/X, and Dev.to with regular technical contributions

## Certifications & Achievements

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### Web Development Portfolio

2023 – Present

- won 7X Web3 -blockchain Hackathons
- 2nd prize on AI Grand challange by StartupTN
- Led solo and team-based projects, taking ownership of architecture, smart contracts, backend APIs, and frontend delivery
- NPTEL Gold on Blockchain and its applications
- Built and deployed multiple production-ready full-stack applications
- Demonstrated proficiency in 7+ programming languages and 6+ modern frameworks
- Maintained active GitHub profile with consistent contributions to personal and open-source projects