

Jay Kerkar

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EDUCATION

Vivekanand Education Society's Institute of Technology

Bachelor of Engineering in Information Technology

- CGPA: 9.85 / 10.0 (till Semester 6)

Mumbai, India

Aug. 2023 – May 2027

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, Solidity

Frameworks & Libraries: React, Next.js, Svelte, SvelteKit, Node.js, Tailwind CSS, Prisma, Zod, Wagmi

Databases & Services: PostgreSQL, Firebase

Developer Tools: Git, Docker, GitHub Actions, Playwright

EXPERIENCE

Full-Stack Developer

Jan. 2025 – Dec. 2025

VESIT Railway – Vivekanand Education Society's Institute of Technology

Mumbai, India | Remote

- Led migration of legacy PHP CodeIgniter system to Next.js, improving scalability, maintainability, and developer experience
- Improved Lighthouse scores: Performance 68→94, Accessibility 83→96, Best Practices 50→96, SEO 91→100
- Engineered a CI/CD pipeline with automated builds, linting, semantic releases, and end-to-end testing
- Deployed on AWS, supporting 2500+ students and handling 1500+ monthly active users efficiently

Full-Stack Developer Intern (concurrent)

Jun. 2025 – Jul. 2025

Xangars Infra

Mumbai, India | On-site

- Developed a SaaS platform in Next.js and Prisma for the Insurance Information Bureau of India (IIB) centralizing hospital and vendor onboarding under ROHINI
- Transformed a fragmented multi-step onboarding workflow into a unified system, reducing dependency on intermediaries
- Architected configurable form schemas supporting diverse onboarding requirements across hospitals and vendors
- Enforced RBAC via Better Auth (Admin, Super Admin, Vendor) and established E2E testing pipelines with Playwright

PROJECTS

ChronoVault | Solidity, Circom, Next.js, TypeScript, Wagmi | [GitHub](#) | [Details](#) ETHOnline 2025 – Top 10 Winner

- Engineered a Web3 smart wallet with TOTP-based 2FA using zero-knowledge proofs, bringing bank-grade security to self-custody wallets
- Encoded the full RFC 6238 TOTP algorithm inside Circom ZK circuits, enabling on-chain proof verification without ever exposing secrets
- Leveraged ERC-4337 account abstraction to enforce transaction-level 2FA without compromising decentralization or privacy
- Crafted a WebSocket + QR code layer for secure ZK proof transfer across authenticator and signing devices

VESITRail | Next.js, TypeScript, PostgreSQL, Prisma, Firebase, Docker | [GitHub](#) | [Details](#)

- Digitized end-to-end railway concession process for 2500+ students, replacing manual paperwork with a fully automated PWA
- Integrated Firebase push notifications with a custom PWA service worker for real-time concession status tracking
- Developed an adaptive print dimension generator ensuring pixel-accurate output despite scanned form layout shifts
- Established Playwright E2E test coverage across critical concession workflows, ensuring production reliability

KeplerFS | Bun, SQLite, Docker | [GitHub](#) | [Details](#)

HackX 4.0 – Runner-up

- Architected a fully leaderless P2P distributed file system where every node serves as HTTP gateway, gossip peer, and chunk store
- Integrated SWIM-inspired gossip protocol for automatic failure detection and dynamic peer state transitions
- Structured a consistent hash ring for deterministic chunk placement, enabling horizontal scaling without central coordination
- Shipped a persistent SQLite-backed replication queue with crash-safe durability and configurable quorum or async replication

ACHIEVEMENTS

ETHOnline 2025 | Winner – Top 10 / 634 Projects Globally | [ChronoVault](#) | [View](#)

Oct. 2025

ETHMumbai 2026 | Winner – Main AI Track + BitGo Sponsor Track (National) | [View](#)

Mar. 2026

HackByte 3.0 | Top 10 Finalist – 125 Teams (Central India) | [View](#)

Apr. 2025

HackX 3.0 | Runner-up – NMIMS Navi Mumbai | [View](#)

Feb. 2025

HackX 4.0 | Runner-up – NMIMS Navi Mumbai | [KeplerFS](#) | [View](#)

Mar. 2026