DINANATH DASH

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SUMMARY

Full-Stack Software Engineer and security researcher specializing in scalable Next.js architectures, secure environment variable management, and local machine learning integrations. Proven track record of bridging complex backend logic (AES-256-GCM, Redis, LLM pipelines) with optimized, user-focused web interfaces. Driven to build secure, high-performance, and data-driven applications.

EXPERIENCE

- **Celebal Technologies Pvt. Ltd.** *Jun 2025 - Aug 2025*
  React JS Intern Remote
  - Engineered a responsive internal shipment delivery application using React.js and Firebase, architecting robust data flow for real-time tracking and authentication.
  - Integrated RESTful APIs via Axios and managed complex application state, reducing data retrieval latency and delivering a production-ready dashboard within an 8-week agile cycle.
- **Visital Technologies Pvt. Ltd.** *Sep 2024 - Apr 2025*
  UI Developer (Part-Time) Remote
  - Bridged design and frontend engineering by prototyping interactive web components and optimizing UI architecture, reducing developer handoff time by 25%.
  - Collaborated cross-functionally with the core engineering team to validate the technical feasibility of state management designs, cutting frontend rework time by 30%.

EDUCATION

- **Institute of Technical and Education Research** *Nov 2022 - Jun 2026*
  Bachelor of Technology Bhubaneswar, India
  - CGPA: 8.06

PROJECTS

- **Project A: Envault - Secure Environment Variable Management Platform** *Jan 2026 - Present*
  Tools: Next.js 14 , Supabase , Redis , AES-256-GCM , Tailwind CSS [envault.tech]
  - Architected a zero-knowledge vault using envelope encryption with a master and data key hierarchy, utilizing AES-256-GCM, automatic key rotation, and Redis caching.
  - Developed a custom CLI for terminal-based secret syncing and implemented Role-Based Access Control (RBAC) to manage granular team permissions.
- **Project B: Hybrid Secret Scanner** *Mar 2026 – Present*
  Tools: Meta Llama 3, Apple MLX, Python, Regex
  - Engineered a two-phase secret detection pipeline running completely offline on Apple Silicon, integrating a local Meta Llama 3 ML module with a high-performance Regex ingestion engine.
  - Co-authored the technical evaluation framework, benchmarking the hybrid model against industry standards (TruffleHog, Gitleaks) to achieve an F1-Score of 0.8723 and a 94.27% recall rate on the 27,000-line CredData dataset.
- **Project C: FreightFox - Shipment Delivery Platform** *Jun 2025 - Aug 2025*
  Tools: React.js, Firebase, Tailwind CSS, ShadCN UI [freight-fox.web.app]
  - Built a responsive internal shipment delivery app with real-time tracking, end-user login, and dynamic shipment management using Firebase as a backend.
  - Designed and developed fully functional dashboards ensuring a seamless user experience and clean data-driven workflows.

SKILLS

- **Languages:** TypeScript, JavaScript, Python, HTML, CSS, SQL
- **Frontend Frameworks:** React, Next.js, Tailwind CSS, ShadCN UI
- **Backend & Databases:** PostgreSQL, Supabase, Firebase, Redis, Convex

ACHIEVEMENTS AND CERTIFICATIONS

- **LetsUpgrade:** Figma Bootcamp
- **NXTWave:** AI for Students: Build Your Own Generative AI Model