Dharun R

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Education

KIT - KALAIGNARKARUNANIDHI INSTITUTE OF TECHNOLOGY   Nov 2022 – Present
Bachelor of Artificial Intelligence and Data Science (GPA: 7.65 / 10)   *Coimbatore, Tamil Nadu.*
- **Relevant Coursework:** Data Science, Machine Learning, Data Structures and Algorithms.

Technical Skills

Core: TypeScript, Node.js, React, Python, Next.js

Web: HTML, CSS, Tailwind CSS, Express, Astro.js

Databases: MongoDB, Firebase, MySQL

Tools: Git, GitHub

Concepts: Machine Learning, Databases, Operating Systems, System Design

Experience

MyAnatomy Integration   June 2025 - Dec 2025
FullStack Developer (Remote)   *Coimbatore, Tamil Nadu.*
- Contributed to AgentHub — an AI-driven support platform enabling clients to build RAG-powered assistants with real-time chat, human takeover, and analytics.
- Built document-ingestion and retrieval pipeline using OpenAI Assistant + Pinecone for RAG, enabling fast, context-rich responses for support agents.
- Implemented a WebSocket-based live chat with seamless human-takeover, preserving conversation context and enabling agent escalation without user friction.
- Developed dashboard backed by MongoDB and auto-refreshing analytics APIs to surface real-time KPIs for support teams.
- Optimized frontend build (tree-shaking, code-splitting, lazy-loading), reducing bundle size by 39%.
- Delivered test coverage: 529 backend tests, 128 frontend tests, plus property tests — achieving ∼85% overall coverage.

Projects

Gravity | *TypeScript*   github.com/DharuNamikaze/Gravity
- Gravity enables LLMs to inspect and debug live UI by querying real DOM values, unlocking UI debugging capabilities not possible with static DOM snapshots.
- Built a Manifest V3 chrome extension that invokes the chrome.debugger API (CDP) to extract runtime DOM, box models, and computed styles from active tabs.
- Implemented a end-to-end pipeline (LLM ↔ MCP ↔ Native Host ↔ Extension ↔ Browser) with automatic reconnection and request correlation.
- Packaged the system as an npm package which works with almost all MCP clients (VS Code, Cursor, etc.).

Convertify | *Next.js, TypeScript, FFmpeg*   convertify-rho.vercel.app
- Online file converter supporting 30+ formats using FFmpeg, runs entirely on client-side for transparency
- Integrated FFmpeg WebAssembly, processing files up to 500MB.
- Reused a single Web Worker instance across conversions, reducing overall memory overhead and improved performance

Odyssey | *Next.js, TypeScript, D3.js, Firebase*   my-odyssey.vercel.app
- Odyssey is a workspace for organizing ideas, habits, notes, tasks and track your progress for personal productivity.
- Built a streak system using a reverse-order traversal algorithm that processes completion dates in O(n log n) time.
- Designed a 5-layer security system using OAuth 2.0, Firebase JWTs, Edge middleware, and rate limiting (100 req/min), mitigating XSS, CSRF, MITM, and token theft with ∼20ms verification latency.