

# Dharun R

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## Education

### KIT - KALAINARKARUNANIDHI INSTITUTE OF TECHNOLOGY

Bachelor of Artificial Intelligence and Data Science (GPA: 7.65 / 10)

Nov 2022 – Present

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

FullStack Developer (Remote)

June 2025 - Dec 2025

Coimbatore, Tamil Nadu.

- Contributed to AgentHub, AI-driven chat support platform enabling clients to create RAG-powered assistants with real-time chat, human takeover and analytics.
- Built the dashboard backed by MongoDB, implemented auto-refreshing analytic APIs and optimised UI/UX.
- Implemented Agent Management System with CRUD, Document ingestion using OpenAI Assistant + Pinecone RAG, Websocket-based live chat system with human takeover support.
- Optimized Build pipeline with tree-shaking, code-splitting, lazy-loading; reduced the bundle size by 39%.
- Tested with 529 backend tests, 128 frontend tests, property tests and achieved ~85% coverage.

## Projects

### Gravity | TypeScript

[github.com/DharuNamikaze/Gravity](https://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 resilient 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-based clients (VS Code, Cursor, etc.).

### Convertify | Next.js, TypeScript, FFmpeg

[convertify-rho.vercel.app](https://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 entirely client-side.
- Reused a single Web Worker instance across conversions, reducing memory overhead and improved performance

### Odyssey | Next.js, TypeScript, D3.js, Firebase

[my-odyssey.vercel.app](https://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.