Dharun R

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Education

KIT - KALAIGNARKARUNANIDHI INSTITUTE OF TECHNOLOGY   NOV 2022 - Present
Bachelor of Artificial Intelligence and Data Science (GPA: 7.56 / 10)   *Coimbatore, Tamilnadu*
- **Relevant Coursework:** Data Science, Machine Learning, Data Structures and Algorithms,

Technical Skills

Languages: HTML, CSS, Javascript, Typescript, C, Python, MySQL
Technologies: Tailwind, Node.js, React.js, Next.js, Astro.js, Firebase, Git, GitHub.
Concepts: UI/UX Research & Design, SEO, Database, Operating System, System Design.

Projects

Convertify | *Next.js, React.js, Typescript, FFmpeg*   convertify-rho.vercel.app
- An online file converter that enables users to convert files into various formats including images, audios, videos. with unlimited conversions without interruptions or restrictions.
- Integrated FFmpeg WebAssembly for client-side conversion, without server-side processing and enhancing privacy, speed, and scalability. Enabling hardware acceleration (-hwaccel auto) for faster video and audio processing.
- Improved memory management by cleaning up FFmpeg's in-memory filesystem after each conversion.

typeD | *Next.js, React.js, Typescript, Tailwind CSS*   type-d.vercel.app
- "Typed" is a minimalistic typing web-app inspired by MonkeyType, providing users with a user-friendly interface with reports on their typing skills such as wpm, accuracy, mistakes.
- Implemented a system that renders and styles each character individually, also utilized React.memo and prop-based updates to reduce unnecessary re-renders, only the affected UI components update during typing.

CellSaver | *Python, HTML*   github.com/DharuNamikaze/CellSaver
- Cellsaver is a simple and user-friendly app made with python tkinter to scan battery wear level by parsing windows battery report. To inform and create awareness of the current level of laptop battery wear, this helps users stay informed about their battery usage.
- Automated extraction and analysis of Windows battery health data using Python (BeautifulSoup, Tkinter, Notifier).

Odyssey | *Next.js, TypeScript, D3.js, Firebase (Ongoing)*   github.com/DharuNamikaze/odyssey
- Building a productivity-focused web app with features like note-taking, behavioral engines to track habits, lifestyle analytics through a creative dashboard and track progress using gamified metrics.
- Implemented custom middleware to secure API routes and restricted pages by validating Bearer tokens.
- Optimized performance using useMemo and React.memo to prevent unnecessary re-renders of expensive components in dashboard.

Experience

MyAnatomy   June 2025 - Present (6-Months)
Scholar at WAVE Program (Part-time)   *Coimbatore, TN*
- Selected for a competitive scholarship program at MyAnatomy.com, "The WAVE Program," designed to provide real-world industrial experience through hands-on projects and research initiatives. The program offers a flexible 4 hours of work per day. Performance will determine progression to a full-time offer or a strong professional recommendation.

Appin Technologies   July 2024
Data Science Internship   *Coimbatore, TN*
- During the internship, I got to explore various data science techniques that helped me understand how real-time data analysis works. I worked hands-on with data preprocessing, data cleaning, and visualizing data. In the end, our team built a meaningful and interactive dashboard using Power BI powered by a large dataset.

Achievements

Codechef: Ranking: 1292, Attended 50+ weekly contest.
CodeTrack: 24Hrs hacakathon conducted by KIT-CBE, secured notable spots 4 times.
CodeDebugging: Attained 3rd place in code-debugging contest, conducted by & at AIT-CBE.