TARUN BADDI

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Education

KLE Technological University   2022 – Present
Bachelor of Computer Applications   Hubli, Karnataka

P C Jabin PU College of Science   2020 – 2022
Pre-University Education   Hubli, Karnataka

Technical Skills

Languages: JavaScript, HTML/CSS, Java
Developer Tools: VS Code, Git, GitHub
Libraries/Frameworks: Node JS, Express JS, Tailwind CSS, Bootstrap

Work Experience

Pravinya Infotech   April 2024 – June 2024
Internship in Machine Learning and Research Methodologies

- Acquired proficiency in machine learning algorithms and foundational research techniques.

Palindrome Labs   January 2025 – Present
MERN-based internship (Ongoing)

- MERN stack intern, focused on learning the basics of MongoDB, Express.js, React, and Node.js through hands-on training.
- Collaborating with development team to build and maintain web applications using modern JavaScript frameworks.

Projects

LyricLift   April 2024
Technologies: Next.js, ReactJS, Node.js, Express.js, PostgreSQL, Prisma ORM, Socket.IO

- Developed a full-stack music streaming platform with collaborative playback control through real-time voting.
- Implemented democratic music playback system where users vote on songs, influencing the playlist in real-time.
- Designed optimized queue system using PostgreSQL and Prisma ORM for structured song management.
- Integrated WebSockets (Socket.IO) and Redis for seamless multi-user synchronization and real-time updates.
- Transitioned from MongoDB to PostgreSQL for better data integrity and optimized database queries.

Achievements

- Presented a research paper titled "Quantum Inspired Firefly Algorithm: An Enhanced Approach to Traffic Signal Optimization" at the 15th ICCCNT (IEEE Conference, IIT Mandi). DOI: 10.1109/ICCCNT61001.2024.10726156

Interests

- **Web Development:** Passionate about building robust and user-friendly web applications.
- **AI Tools for Development:** Utilize GitHub Copilot for code generation and DeepSeek (Chain of Thoughts) for problem-solving and exploring different development approaches.
- **Modern JavaScript Frameworks:** Exploring Next.js, React, and other modern web technologies.