

Pali Krishna Harshith

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Objective

Passionate and driven Computer Science student with a strong foundation in Data Structures, Algorithms, and Full-Stack Web Development. Eager to apply technical skills to build real-world solutions, continuously learn new technologies, and contribute meaningfully to innovative and collaborative projects.

Technical Skills

- Languages: C, JavaScript, Python, Rust(learning), C++ (learning)
- Core: DSA, OOPs(Learning), DBMS(learning)
- Web: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, React.js
- Tools: Git, Github, VS Code, Postman, Figma
- Domains of Interest: Full-Stack Web Dev, AI/ML, Competitive Programming

Education

Mahindra Univesity, B.Tech in Computer Science and Engineering August 2024 – Present

- **Coursework:** Introduction to Computing, Data Structures, Digital Logic Design and Computer Architecture.
- Currently pursuing undergraduate studies with a strong interest in research, development, and building real-world tech projects. Actively involved in technical communities and hands-on learning through workshops, clubs, and independent work.

Projects

AITO – AI-Powered Traffic Optimization

Research & Development Project | Ongoing

- Designing an AI-based traffic optimization system that intelligently reroutes traffic using real-time and contextual data such as weather, congestion, human activity, and fixed-route constraints.
- Incorporating predictive modeling and ML algorithms to analyze traffic patterns and suggest optimal alternate paths in dense urban environments.
- Building a clean and responsive UI for simulation and visualization, while using Firebase to store dynamic data and Git for collaborative development.

Tech Stack: Python, Pandas, NumPy, Scikit-learn, TensorFlow (planned), Firebase, JavaScript, React.js, Tailwind CSS, REST APIs, Git, Figma (for UI), VS Code, Leaflet

Anu Furnitures – Front-End Store Website

Freelance Client Project | 2024

- Developed a responsive and mobile-friendly business website for a local furniture store to showcase their catalog online.
- Collaborated with the client to gather requirements and deliver a clean, functional UI tailored to their branding.
- Completed and deployed as a paid freelance project via a personal referral.

Tech Stack: HTML, CSS, JavaScript

Chess Game – 2D JavaScript Game

Personal Project | 2023

- Built a fully playable two-player chess game with move logic, turn tracking, and basic UI using vanilla JS. Used the Canvas API for rendering the board and pieces dynamically with smooth interactions.
- Strengthened core concepts in logic building, game state management, and DOM manipulation.

Tech Stack: JavaScript, HTML5 Canvas, CSS

Certifications

The Complete Full-Stack Web Development Bootcamp - Angela yu, Udemy(2023) - Certification

- Gained hands-on experience in building responsive full-stack web applications using HTML, CSS, JavaScript, Node.js, Express, and MongoDB
- Learned backend fundamentals including RESTful APIs, authentication, databases, and server-side rendering using EJS
- Built and deployed real-world projects such as a blog app, to-do list, and authentication-based apps using OAuth, Passport.js, and MongoDB Atlas

Club Involvement

Association for Computing Machinery(ACM - Student Chapter) - Tentative Web Dev

- Selected to be part of the web team; expected to contribute to the design and development of the chapter's official website.
- Looking forward to collaborating on technical content, event pages, and backend integration to support student-led computing initiatives.
- Actively following the chapter's technical sessions and planning to assist with future digital and outreach efforts.