

Harsh Singh

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WORK EXPERIENCE

University of Mara l Malaysia - Research Intern

- Reduced computational time by 15 percent and improved material strength prediction accuracy by 20 percent using advanced crystal plasticity simulations and the DAMASK framework.
- Accelerated simulations by 30 percent with Python, DAMASK, and HPC systems, enhancing re-search efficiency.
- *Tech Stack: Python, DAMASK, HPC, Version Control*

Tripfox Travel India - Full Stack Developer

- Boosted user engagement by 40 percent and lead conversions by 25 percent for Tripfox Travel India by developing and deploying a fully responsive, full-stack landing page.
- Designed and implemented a full-stack dynamic admin panel, cutting content management time by 50 percent and reducing site downtime by 30 percent.

PROJECTS

Campus Medical Automation

- Developed a **medical automation** system for our university, used by 6,000+ students and staff, utilizing React, Node.js, MongoDB, and Firebase.
- Improved efficiency by 40 percent through real-time updates and automated reminders for appoint-ment scheduling, patient records, and inventory management.

Rajasthan Tourism

- Crafted a visually stunning and **responsive** tourism frontend for Rajasthan Tourism, showcasing the state's attractions with vibrant design elements.
- Enhanced user engagement by implementing interactive features and smooth navigation, elevating the overall user experience for potential tourists.

BookStore

- Developed "**Page Perfection**", a full-stack website showcasing advanced design principles, intuitive user experience, and seamless navigation across multiple pages.
- Engineered a robust backend infrastructure for "Page Perfection," ensuring high performance, scal-ability, and secure data management for an optimal user experience.

RESEARCH

- **Predicting Sports Engagement Among Engineering Students Using Machine Learning: A Cross- Stream Analysis:** This research examines how sports engagement affects academic performance in engineering students, guiding balanced choices for well-being and success.

POSITION OF RESPONSIBILITY

- **Organizing committee** - SecureX, an Australian blockchain hackathon
- **Team Member** - Student Council in SRM AP

ACHIEVEMENTS

- **Winner of 9 Hackathons** — *Next Tech Lab* — 2024
- **Participant, Unfold 2024** — *Premier Tech Event* — 2024

SKILLS

Technical Skills	ReactJs, NodeJs, ExpressJs, Tailwind CSS, SCSS, HTML, CSS, Bootstrap, APIs, MongoDB, Postman
Programming Languages	C++, JavaScript, C, Python
Personal Qualities	Curious, TeamWork, Disciplined, Punctual

EDUCATION

SRM University, Andhra Pradesh	CGPA: 9
Class 12th CBSE Board	82%
Class 10th CBSE Board	86%