

Mani Harsha Masina

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SUMMARY

Master's student in Information Science and Technology at Missouri S&T, specializing in Full Stack Development, Cloud Computing (AWS), and Scalable Web Applications. Experienced in designing and deploying impactful software solutions that improve performance, security, and user engagement.

WORK EXPERIENCE

Cellix Bio Pvt Ltd

Full Stack Developer (MERN)

Hyderabad, India

Oct 2022 – Jul 2023

- Centralized system for managing 250+ patent families, tracking legal statuses, and improving deadline adherence across 14 countries.
- Developed a Data Management Web Application using the MERN stack with Firebase OTP authentication and AWS-hosted services.
- Created an advanced search system supporting 5 different input searches with multiple sorting options.
- Improved patent management efficiency, deadline tracking by 60%, and productivity by 90%; enhanced searchability and organization clarity by 100%.
- **Hyperlink:** mis.cellixbio.info
- Built a corporate portfolio on AWS (EC2, S3, Route 53) to showcase 650+ international patents and store 11,500 patent-related images.
- Enhanced web app performance and load times; achieved 95% SEO (with 100% SEO and Accessibility) on Google PageSpeed Insights.
- **Hyperlink:** cellixbio.com

EDUCATION

Missouri University of Science and Technology

M.S. in Information Science and Technology GPA: 3.7/4.0

Rolla, MO

Aug 2023 – May 2025

The LNM Institute of Information and Technology

Bachelors in Electronics and Communication Engineering GPA: 3.3/4.0

Jaipur, India

Aug 2018 – Jul 2022

SKILLS

- **Programming Languages:** Python, Javascript, C++, C, R
- **Scripting Languages:** HTML, CSS, Bootstrap, PHP
- **Cloud Technologies:** AWS (VPC, EC2, S3, IAM, SNS, RDS, Route 53, EBS, Lambda, CloudWatch), Firebase, MongoDB Atlas
- **Frameworks/Libraries:** GIT, REST API, ReactJS, NodeJS, Vite, Material UI, TailwindJS, ExpressJS, Mongoose, SEO, Moment
- **Tools:** Git Bash, Excel, PowerBI, NGINX, Apache, Postman, GoDaddy, Terminal, MongoDB Compass, VS Code
- **Databases:** MySQL, MongoDB

PROJECTS

- **Express Shuttle Services:**
 - Developed a responsive single-page full stack application using MERN for shuttle bookings from Rolla to St. Louis and nearby areas.
 - Implemented Firebase Email Authentication for secure login and session management.
 - Designed an intuitive ticket booking feature; improved booking efficiency by 95%.
 - Integrated PayPal for secure transactions with a 95% success rate.
 - Optimized performance for a 100% responsive design across devices.
- **Snaptube:**
 - Built a real-time YouTube clone using Vite and Material UI, simulating core YouTube functionality with over 50,000 video streams.
 - Streamlined content access across 10+ video genres, increasing session duration by 25%.
 - Achieved 2-second load times with fully responsive layouts.

CERTIFICATIONS

- Business Analytics and Data Science Certification, Missouri S&T (Jan 2025).
- Full Stack Development (MERN) Certification, Digital Lync, Hyd (Jun 2023).
- AWS Solution Architect Certification, Digital Lync, Hyd (Jul 2023).
- Data Structures and Algorithms in C++: Zero to Mastery, Udemy (Aug 2022).