Alasyam Likhith

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Education

Mahindra University June 2026
B Tech Computer Science *Current GPA: 5.84/10.0*
Narayana Junior College June 2022
MPC *Marks: 948/1000*
New Vision School June 2020
SSC *GPA: 10.0/10.0*

Coursework

Courses: Data Structures & Algorithms, DBMS, Computer Networks, OS, Software Engineering

Skills

Languages: C, Java, SQL, HTML/CSS
Frameworks: React.js, Node.js, Express.js, MongoDB
Tools: Git/GitHub, Unix Shell, VS Code, Google Colab, Jira, Open Project, Figma, PowerBI

Projects

Personal Finance Tracker and Portfolio Analyzer | *NodeJS, ReactJS, MongoDB, Git* Aug 2025 – Present

- Developing a full-stack personal finance application using the MERN stack to manage income, expenses, loans, bank accounts, and investment assets (Mutual Funds, stocks, etc.).
- Developing a modular Day Book system with CRUD operations for real-time financial tracking and reporting.
- Creating a high-performance Mutual Fund Analyzer using charts to visualize historical investment trends and benchmark comparisons (e.g., Nifty50, Sensex, Nifty Midcap 150).
- Building a backtesting engine to simulate mutual fund combinations using historical NAV data, calculating downside protection and risk-adjusted return metrics.
- Implementing JWT-based authentication and integrating APIs for real-time asset prices and benchmark tracking.
- Deployed the frontend on Vercel and the backend on Render.

Timetable Generator | *NodeJS, ReactJS, MongoDB, JWT, OAuth, Git, Render, Vercel* Feb 2025 – June 2025

- Designed and developed a web-based timetable generation tool using a genetic algorithm to optimize scheduling based on user-defined constraints.
- Implemented secure authentication using JWT and Google OAuth for third-party login.
- Deployed the backend on Render and the frontend on Vercel with environment-based configuration.
- Managed the project using Git and GitHub for version control and team collaboration.

Defect Product Detection | *YOLOv5, Google Colab, OpenCV* Oct 2024 – Nov 2024

- Built an object detection system using YOLOv5 to identify defects in jar lids with high accuracy.
- Used OpenCV and image preprocessing techniques to enhance detection quality and reduce noise.
- Trained and evaluated the model using annotated datasets on Google Colab.

Experience

Construction ERP System (Freelance Full-Stack Developer) Nov 2024 – June 2025

- Built a full-stack ERP solution for a construction client to manage inventory, vendor orders, expenses, income, and generate P&L and balance sheet reports.
- Developed backend services using Express.js and Mongoose for efficient CRUD operations.
- Implemented JWT-based role access control with middleware authorization.
- Deployed frontend (Vercel) and backend (Render) with GitHub-integrated CI/CD and environment-specific configs.