

MANOJ KUMAR

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PROFESSIONAL SUMMARY

Passionate Full Stack Developer skilled in MERN, Java, and Python with a solid foundation in DSA, OOP, and REST APIs. Built real-world projects like a Hospital Management System and a Drone Obstacle Avoidance system. Active on GitHub with clean, well-documented code and experience in CI/CD, version control, and cloud deployment.

EDUCATION

G Pullaiah College of Engineering and Technology

Bachelor's in Computer Science and Engineering; 8.9

Minor's Degree in Electronics and Communication Engineering

Narayana Junior College

Intermediate – MPC ; 96%

Keerthi High School

SSC – 97%

Kurnool, Andhra Pradesh, India

June 2022 – August 2026

June 2024 – August 2026

Kurnool, Andhra Pradesh, India

June 2020 – March 2022

Kurnool, Andhra Pradesh, India

2019 – 2020

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript
- **Frameworks & Tools:** React.js, Node.js, Express.js, Spring Boot, Bootstrap, Tailwind CSS, VS Code, Eclipse, Postman
- **Version Control & Cloud:** Git, GitHub, AWS (EC2/S3), Docker, GitHub Actions, Vercel
- **Miscellaneous:** MySQL, MongoDB, REST APIs, OOP, SDLC, CI/CD, Agile, Problem-Solving

PROFESSIONAL EXPERIENCE

Frontend Developer Intern – Bluestock Fintech

August 2025 – September 2025

- Worked on developing and enhancing user interfaces using React.js, JavaScript, and Tailwind CSS.
- Focused on building responsive, accessible, and scalable UI components for fintech dashboards.

PROJECTS

Simple E-Commerce API | Node.js, MongoDB, JWT |

June 2025

- Designed a clean and modular REST API for core e-commerce operations including products, users, cart, and orders.
- Implemented JWT-based authentication and role-based access for secure admin and customer interactions.
- Built reusable service-layer logic for future frontend integrations and scalable architecture.
- This project sharpened my backend fundamentals while focusing on clean code, security, and maintainability.

Autonomous Drone Obstacle Avoidance | Python, Raspberry Pi, LiDAR |

April 2025

- Developed the core Python control script for a GPS-based drone, enabling autonomous navigation through real-time sensor feedback and obstacle avoidance.
- Wrote custom decision-making logic to process live distance data from LiDAR's, adjusting altitude and direction dynamically.
- Scripted MAVLink communication using pymavlink to control drone operations like arming, takeoff, and velocity, while building a reliable control loop that dynamically switched between GUIDED mode and manual POSHOLD mode based on RC input.
- Deployed the system on Raspberry Pi for efficient edge processing and sensor data integration.

Hospital Management System | Java, JSP, Servlets, MySQL |

December 2024

- Developed a full-stack hospital portal using Java, JSP, Servlets, and MySQL to manage patient records, appointments, and users.
- Implemented role-based access features and organized patient data handling to support efficient hospital administration.
- Designed scalable backend logic using Java Servlets and organized relational data via MySQL.
- This project replicated real hospital workflows, helping me apply backend logic to real-world use cases.

CERTIFICATIONS

Full Stack Web Development | Blend Vidya |

November 2024

Cambridge English: Linguaskill General Certificate [B1] | University of Cambridge |

August 2023

ACHIEVEMENTS

ISRO Challenge 2025 – Qualification Round Achieved | ISRO |

April 2025

Speakeasy Club – Trained 100+ Students in Public Speaking | MSMF |

June 2024