

# 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

### Narayana Junior College

Intermediate – MPC ; 96%

### Keerthi High School

SSC – 97%

Kurnool, Andhra Pradesh, India

**June 2022 – August 2026**

Kurnool, Andhra Pradesh, India

**June 2020 – March 2022**

Kurnool, Andhra Pradesh, India

**2019 – 2020**

## 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.

## 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.

## 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

## CERTIFICATIONS

### AWS Cloud Computing & DevOps [🔗](#) | APSSDC

**July 2025**

### 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**