

# Manish R

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## SUMMARY

Full Stack Software Engineer with hands-on experience building production web applications and backend services using Java, Python, React, and PostgreSQL. Comfortable working across the stack in small agile teams, with a focus on reliable API design, database performance, and clean maintainable code.

## EDUCATION

- GITAM University** Bengaluru, India  
*B.Tech in Computer Science Engineering | CGPA: 7.2/10.0* 2022 – 2025
  - Relevant Coursework:** Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Object-Oriented Programming

## EXPERIENCE

- Alstonair Technologies** Bengaluru, India  
*Full Stack Software Engineer* Apr 2026 – Present
  - Full Stack Development:** Engineered RESTful APIs and responsive frontend interfaces using React, FastAPI, and Django in an agile 5-member startup team, delivering production-ready features across bi-weekly sprints. Designed and optimized PostgreSQL database schemas, reducing query latency through indexing and query optimization. Built async microservices with PostgreSQL integration via asyncpg, supporting scalable backend architecture.
- GITAM University** Bengaluru, India  
*Field Assistant – IoT Research* Sep 2025 – Mar 2026
  - DST-Funded IoT Research Project:** Contributed to a government-funded precision agriculture project. Integrated IoT field sensors (ESP32, DHT22) for real-time environmental monitoring, managed cloud data pipelines via ThingSpeak, and developed supporting software solutions. Led a two-day bilingual Kannada/English workshop for 40+ rural farmers, translating technical concepts for non-technical audiences.
- Himalaya Wellness Company** Bengaluru, India  
*Software Developer Intern* Jan 2025 – Feb 2025
  - Geolocation-Based QR System:** Designed and developed a geolocation-based QR code redirection system using .NET and SQL Server, improving campaign tracking accuracy for 3+ active marketing campaigns through location-aware dynamic routing.

## TECHNICAL SKILLS

- Languages:** Java, Python, JavaScript, TypeScript, SQL, C
- Backend:** Spring Boot, FastAPI, Django, Node.js, Express.js, Flask
- Frontend:** React, Next.js, HTML5, CSS3, Tailwind CSS
- Databases:** PostgreSQL, MySQL, Supabase, SQL Server
- Cloud & DevOps:** Git, GitHub Actions, Docker, Azure, Linux/Unix, Postman
- Concepts:** REST APIs, Event-Driven Architecture, Microservices, JWT, RBAC, Agile/Scrum, CI/CD

## PROJECTS

- Inventory Event Processor** | *Java, Spring Boot, PostgreSQL, React* **May 2026**  
Built a backend service simulating an event-driven inventory update pipeline. Events are queued asynchronously, processed by a Spring Boot service, and persisted to PostgreSQL. Exposed RESTful endpoints for downstream consumers and built a React dashboard to visualise event throughput and inventory state in near real-time.
- GitPilot – AI-Powered GitHub CLI Tool** | *Python, Ollama, GitHub API, PyPI* **Mar 2026**  
Engineered and published an open-source AI-powered CLI tool to PyPI, automating GitHub workflows using local LLMs via Ollama. Features include AI-generated commit messages (cutting commit documentation time by ~80%), automated README creation, and repository management.
- Secure Form-Based Data Collection System** | *Next.js, TypeScript, Node.js, Express, PostgreSQL* **Jul 2025 – Mar 2026**  
Designed and deployed a full-stack data management platform with role-based access control, JWT authentication, and an admin dashboard supporting search, pagination, filtering, and CSV export across 15+ data fields.
- Smart Irrigation System** | *C, Python, ESP32, Prophet ML, ThingSpeak* **Jul 2024 – Mar 2025**  
Built an end-to-end IoT irrigation system with ESP32 sensors, ML-based crop rotation predictions using Facebook Prophet, and real-time dashboards via Blynk IoT and ThingSpeak data pipelines.

## ACHIEVEMENTS & EXTRACURRICULARS

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- **2nd Runner-up – SAE India REEV**  
*Infotainment System Lead*
- **Directorate of External Affairs** Feb 2026  
*Campus Branding Lead, GITAM*
- **Runner-up – SIH Internal Hackathon**
- **Rotaract Club** Sep 2023  
*Special Events Organising Committee*
- *Team Participant*