

MANOJ T B

Mysuru, Karnataka

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EXECUTIVE SUMMARY

Computer Science graduate specializing in backend and full-stack development with Python and Flask. Designed, built, and deployed two production web applications end-to-end — covering authentication, database design, caching, and third-party API integration — both live and in active use. Strong foundation in Object-Oriented Programming and Data Structures & Algorithms (C++), with hands-on experience in RESTful API design, MongoDB, and cloud deployment across Render and Vercel.

EDUCATION

JSS Science and Technology University

Computer Science and Engineering – CGPA: 8.33

Nov 2022 – May 2026

Mysuru, KA

Mangala PU College

PCMB – Percentage: 94%

Jun 2020 – Apr 2022

Hassan, KA

TECHNICAL SKILLS

- **Languages:** Python, C++, C
- **Backend:** Flask, Node.js, JWT Authentication, bcrypt
- **Databases & Caching:** MongoDB, MySQL, Redis
- **Frontend:** React.js, Vite, Tailwind CSS, HTML, CSS
- **Core Computer Science:** Object-Oriented Programming, Data Structures & Algorithms, Problem Solving
- **Software Engineering:** Debugging, Unit Testing, Modular Development, Version Control
- **Tools & Platforms:** Git, GitHub, Postman, Render, Vercel, Hostinger

PROJECTS

GMEB Hostel — Hostel Management Platform (Live at gmebhostel.space)

Tech Stack: Python, Flask, MongoDB Atlas, PyMongo, Flask-Login, Tailwind CSS, Brevo API, Gunicorn

- Architected a full-stack hostel management platform with role-based Admin, Warden, and Student portals, implementing session-based authentication and bcrypt password hashing.
- Engineered an automated room allocation and occupancy-tracking system using atomic MongoDB operations to prevent race conditions, with optimized indexing and pagination for fast data retrieval.
- Built an OTP-based password recovery flow via the Brevo email API, plus automated library and placement-record modules with Excel/CSV batch data ingestion and overdue tracking.
- Implemented a scheduled keep-alive mechanism to eliminate cold-start delays on Render's free-tier hosting, improving reliability for real users.

CampusFit 2.0 — Placement Intelligence Platform (Live at campusfit.online)

Tech Stack: Python, Flask, Vite, Tailwind CSS, MongoDB Atlas, Redis, Scikit-learn, Pandas, NumPy, JWT, RESTful APIs

- Built a placement-readiness platform end-to-end with Flask REST APIs on the backend and a React (Vite) frontend, secured with JWT-based authentication and role-based routing.
- Engineered a Redis caching layer for assessment scoring and dashboard queries, reducing repeated computation and improving response times across the results pipeline.
- Trained and evaluated a Random Forest classification model on 10+ academic and extracurricular features — including resume ATS score, CGPA, hackathons, and assessment results — to predict placement readiness.
- Built an automated resume-intelligence pipeline that extracts PDF/DOCX content, scores ATS compatibility, and generates job-specific matching recommendations.

CERTIFICATIONS

- C++ Programming– GeeksforGeeks 
- Python Programming – GeeksforGeeks 

SOFT SKILLS

- Teamwork – Collaborated in a team to design, build, and deploy two full-stack production applications.
- Time Management – Uses the Pomodoro Technique to structure focused, efficient work sessions.