

TANMAY NAPTE

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PROFESSIONAL SUMMARY

Entry-level Python backend developer with hands-on experience building CRUD-based web applications using Flask and Django. Strong understanding of backend routing, form handling, and database integration using SQLite and PostgreSQL (SQLAlchemy ORM). Solid academic foundation in data structures and problem solving. Actively improving skills in REST API design, backend architecture, and application deployment.

EDUCATION

MIT Arts, Commerce & Science College (MITACSC)

Pune, Maharashtra

Bachelor of Computer Application

July 2023 – April 2026 (Expected)

Relevant Coursework: Data Structures, Algorithms, Database Management, Web Technologies, Software Engineering

Chatrapati Sambhaji Raje Jr. & Sr. College

Jategoan Bk., Maharashtra

Higher Secondary Certificate (12th)

June 2022 – April 2023

TECHNICAL SKILLS

Programming Languages: Python, C, C++, SQL, JavaScript

Frameworks: Flask, Django

Databases: SQLite, PostgreSQL

Tools: Git, GitHub, Linux, Postman, VS Code

Core Skills: Backend Development, CRUD Operations, ORM Basics (SQLAlchemy), Database Design Basics, Problem Solving

PROJECTS

Smart Shared Expense Tracker (Ledger)

Personal Project

- Built a web application to manage shared group expenses (roommates/trips) with automatic balance calculation.
- Implemented group creation, member management, expense tracking, and settlements with validation to prevent over-settlement.
- Designed backend logic for accurate expense splitting and consistent balance updates after each transaction.
- Built group-wise views and dashboards using Flask server-side templates for clean navigation and usability.
- Ensured responsive UI for desktop and mobile devices with focus on data consistency and user experience.
- **Technologies:** Python, Flask, PostgreSQL, SQLAlchemy (ORM), HTML, CSS, Bootstrap

Student Management System

Personal Project

- Built a Flask-based web application to manage student records with full CRUD functionality
- Implemented attendance tracking with structured relational data storage
- Designed modular routing and handled form-based requests and responses
- Integrated SQLite database for persistent storage and deployed the application for public access
- Deployed the application using a cloud hosting platform and managed production configuration
- Developed responsive web interface using HTML, CSS, and Bootstrap for form-driven workflows
- **Technologies:** Python, Flask, SQLite, HTML, CSS, Bootstrap

Data Structure Implementations

Academic Project

- Implemented fundamental data structures including linked lists, stacks, queues, trees, and graphs
- Practiced algorithmic problem solving with emphasis on time and space complexity
- Applied sorting and searching algorithms in academic problem scenarios
- **Technologies:** C, C++, Python

ACHIEVEMENTS & ACTIVITIES

- Completed online courses in Python programming, Django framework, and backend fundamentals

- Maintained multiple personal projects on GitHub demonstrating backend development concepts
- Regularly practice problem-solving using data structures and algorithms

ADDITIONAL INFORMATION

Languages: English (Fluent), Hindi (Fluent), Marathi (Native)

Interests: Backend Engineering, System Design Basics, Open Source, Competitive Programming