Aastha Malik

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PROJECTS

Blossom – Gamified Task Manager (Backend-Focused) | Python, FastAPI, PostgreSQL, SQLAlchemy, JWT, OAuth2

- Built a **FastAPI backend** for a gamified task management system with secure REST APIs.
- Implemented **authentication and authorization** using JWT-based access control and **Google OAuth2 login**.
- Designed **backend-enforced gamification logic** (points, streaks, inactivity penalties, virtual pet system).
- Developed APIs for **tasks, user progress, and analytics** with validation and structured error handling.
- Integrated a **web-based frontend** and a **Tkinter desktop client** consuming backend APIs (AI-assisted frontend).
- Deployed backend, frontend, and PostgreSQL database as connected services on **Render**, creating a fully working end-to-end system.

Auth – Reusable Authentication Module (FastAPI Backend) | Python, FastAPI, SQLite, JWT, OAuth2.0

- Built a standalone backend authentication system using FastAPI.
- Implemented email/password authentication with JWT-based access control.
- Integrated Google OAuth2.0 on the backend.
- Developed password reset and email verification workflows.

SKILLS

Programming Languages: Python
Backend & APIs: FastAPI, REST API design, Authentication & Authorization (JWT, OAuth2.0)
Databases: SQLite, PostgreSQL
Tools & Platforms: Git, GitHub, Linux (basic), VS Code, Cursor (AI-assisted development), Anti-Gravity (AI-assisted tooling), Swagger UI

AWARDS & HONORS

Shortlisted in Flipkart Girls Wanna Code (GWC) 7.0
Resume shortlisting round

EDUCATION

Maharaja Surajmal Institute of Technology, Janakpuri, Delhi   *Aug 2024 — May 2028*
B.Tech in Computer Science   *GPA: 8.0/10*