Aman Kumar Singh

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[LinkedIn](#) | [Github](#) | [Portfolio](#)

Summary

Python-focused full-stack developer specializing in scalable web applications, developer tooling, and local-first desktop software. Experienced in designing clean architectures using Django, FastAPI, and React, with a strong focus on performance, maintainability, and polished user experiences.

Education

L.J. Institute of Engineering and Technology, Ahmedabad
B.Tech in Computer Science Engineering
Graduated: January 2026

Technical Skills

- **Backend:** Python, Django, FastAPI
- **Frontend:** React, TypeScript, HTML, CSS
- **Databases:** SQLite, PostgreSQL
- **DevOps & Tools:** Git & GitHub, VS Code, Docker
- **Data & AI/ML:** NumPy, Pandas, TensorFlow, Scikit-learn

Experience

Python Django Intern, Maxgen Technologies Pvt. Ltd., Ahmedabad
March 2025 – September 2025

- Extended and customized a Django-based [e-commerce](#) platform, implementing user authentication, wishlists, cart, order management, and Razorpay payment integration.
- Independently identified architectural and code-quality issues and [rebuilt](#) the platform to improve maintainability and overall code quality.

Projects

AI-powered Quiz App (Django) | [Github](#) | [Website](#)

- Architected a dynamic quiz application using the Google Gemini API to generate personalized questions and provide real-time, explanatory feedback.
- Implemented a lightweight, server-driven architecture using Django with HTMX and Alpine.js to support a responsive user experience with minimal frontend complexity.
- **Technology Stack:** Python, Django, Gemini API, HTMX, Alpine.js, HTML, CSS

Algorithm Visualizer (FastAPI & React) | [Github](#) | [Website](#)

- Developed an interactive platform for real-time visualization of algorithms, illustrating step-by-step execution.
- Designed a decoupled architecture using React (TypeScript) for the frontend and FastAPI (Python) for backend algorithm execution.
- **Technology Stack:** Python, FastAPI, React, TypeScript, HTML, CSS

Tremors Music (FastAPI, React & Tauri) | [Github](#)

- Developed a high-performance, local-first music player deployed as both a web and native desktop application, capable of efficiently managing libraries with 10,000+ songs.
- Reduced resource consumption by ~70% through a Tauri (Rust) shell combined with a compiled Python backend sidecar.
- **Technology Stack**: Python, FastAPI, React, TypeScript, Rust, Tauri, SQLite

CLI Utility Suite (Python) | [Github](#)

- Engineered a Python-based CLI toolkit for directory visualization, code metrics, and repository migration that runs with zero external dependencies and works out-of-the-box across environments.
- Built entirely on the Python Standard Library to maximize portability, reliability, and ease of distribution.
- **Technology Stack**: Python (Standard Libraries only)