Aman Kumar Singh

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

Summary

Python Developer with a CSE degree, specializing in full-stack web applications and developer tooling. Built projects ranging from AI-powered learning platforms to high-performance desktop applications. Skilled in Django, FastAPI, React, and TypeScript with a focus on clean architecture and user experience.

Education

L.J. Institute of Engineering and Technology, Ahmedabad
B.Tech in Computer Science Engineering
CGPA: 6.4
Graduation: September 2025

Technical Skills

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

Experience

Python Django Intern, Maxgen Technologies Pvt. Ltd., Ahmedabad
March 2025 – September 2025
- Learned Django by extending an e-commerce template with custom features including user auth, wishlists, cart, and order management.
- Integrated Razorpay payment gateway for secure transactions.
- Identified code quality issues post-internship, leading to a full rebuild of the platform with improved architecture.

Projects

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

- Architected a dynamic quiz application that leverages the Google Gemini API to generate personalized questions and provide real-time, explanatory feedback.
- Engineered a full-stack solution with Django serving the backend logic and a responsive, vanilla HTML/CSS/JS front-end for an intuitive user experience.
- **Technology Stack:** Python, Django, Gemini API, HTML, CSS, JavaScript

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

- Created an interactive, full-stack platform for visualizing complex algorithms in real-time, designed to enhance understanding of step-by-step processes.
- Implemented a decoupled architecture using React (TypeScript) for a dynamic front-end and FastAPI (Python) to power the backend API for algorithm execution.
- **Technology Stack:** Python, FastAPI, React, TypeScript, HTML, CSS

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

- Developed a high-performance, local-first music player that functions as both a web and native desktop application, capable of handling libraries with 10,000+ songs efficiently.
- Leveraged a Tauri (Rust) shell with a compiled Python backend sidecar to reduce resource consumption by 70% compared to the web version.
- **Technology Stack**: Python, FastAPI, React, TypeScript, Rust, Tauri, SQLite

Certifications

- **HTML, CSS & JavaScript for Web Devs** – Johns Hopkins University (Coursera) – January 2023
- **Exploratory Data Analysis for Machine Learning** – IBM (Coursera) – July 2023
- **Algorithmic Thinking** – Rice University (Coursera) – January 2024
- **Building Generative AI-Powered Applications with Python** – IBM (Coursera) – October 2024
- **Machine Learning with Python** – IBM (Coursera) – December 2024