

# ABHISHEK SINGH

PYTHON BACKEND DEVELOPER

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## SUMMARY

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Python backend developer with hands-on experience building scalable web applications using Django. Strong understanding of RESTful architectures, background task processing, caching, and search systems. Experienced in integrating payment gateways, optimizing performance, and working with modern backend tools. Seeking backend or software development roles.

## SKILLS

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**Programming languages:** Python, JavaScript

**AI Skills:** Generative AI

**Frameworks & Libraries:** Django, FastAPI, NumPy, Pandas

**Databases:** MongoDB, MySQL, PostgreSQL

**Caching & Messaging:** Redis, Celery

**Tools:** Git, Docker

## PROJECTS

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### E-Commerce Web Application (ROLE-BASED)

**Technologies:** Python, Django, Redis, Celery, Elasticsearch, Razorpay, Bootstrap, PostgreSQL, Google OAuth

- Designed and developed a full-stack e-commerce web application using Django with a modular and scalable architecture.
- Implemented user authentication and role-based authorization for customers and sellers.
- Integrated Social Login (Google OAuth 2.0) to enable secure and seamless user authentication.
- Built seller onboarding and dashboard functionality for product creation, listing, and inventory management.
- Designed relational database schemas for users, products, carts, and orders using Django ORM.
- Integrated Razorpay payment gateway for secure payment processing, order confirmation tracking.
- Implemented Redis caching to reduce database load and improve application response times.
- Developed asynchronous background tasks using Celery with Redis for PDF invoice generation.
- Integrated Elasticsearch to provide fast, full-text product search and filtering functionality.
- Implemented cart and order workflows with payment verification and order status management.
- Used Django Admin for backend data management and followed Django best practices for URLs, views, and app separation.
- Managed dependencies and reproducible builds using the UV package manager.

### SMART SCHEDULER AI AGENT

**Technologies:** GPT-4o-mini, LangChain, LangGraph, Google Calendar API, OpenAI TTS, speech\_recognition

- Built a conversational AI assistant that books, modifies, and deletes calendar events using natural language and voice commands.
- Integrated Google Calendar API for real-time scheduling logic with conflict detection, time parsing, and event lifecycle management.
- Enabled voice input/output using speech\_recognition and OpenAI TTS for hands-free, interactive scheduling experiences.

### AI RESUME REVIEWER

**Technologies:** React, FastAPI, MongoDB, Gemini 2.0 Flash, Redis, RQ

- Developed a full-stack AI application that analyzes resumes and provides structured feedback.
- Implemented background processing using Redis queues for scalable task execution.
- Built REST APIs using FastAPI with MongoDB for data persistence.

## EDUCATION

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**MANIPAL UNIVERSITY JAIPUR**

Bachelor of Computer Applications (BCA)

GPA: 8.79

March 2022- March 2025