

# Utkarsh Pathak

Delhi, India

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## Education

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**Maharaja Surajmal Institute of Technology (GGSIPU)**, New Delhi

B.Tech in Electronics and Communication Engineering (75.5%)

Jul 2019 – Jul 2023

## Experience

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### Software Engineer Intern

Feb 2024 – Aug 2024

NexiCorn Technologies Pvt. Ltd. (Remote)

- Developed 15+ production REST API endpoints using Flask supporting live platform *JobsOwn*.
- Designed relational database schemas and optimized MySQL queries, improving backend efficiency and reducing redundant joins.
- Implemented authentication, request validation, and structured error-handling mechanisms for secure API workflows.
- Integrated Redis caching layer to reduce repeated database hits and improve response performance.
- Containerized backend services using Docker and supported deployment workflows on AWS infrastructure.
- Collaborated cross-functionally with frontend (React) developers to ensure seamless API integration and issue resolution.

## Projects

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### Intelligent Resume Ranking System

Python, Flask, NLP, TF-IDF, SQLite

- Built AI-powered resume screening engine to match resumes with job descriptions using TF-IDF vectorization.
- Implemented cosine similarity scoring mechanism for automated candidate ranking.
- Developed PDF parsing and text preprocessing pipeline using PyPDF2.
- Designed ATS-style keyword scoring logic to simulate automated resume evaluation systems.

### Scalable Job Application Platform

Django, DRF, PostgreSQL

- Designed RESTful APIs supporting job posting and application workflows.
- Implemented JWT-based authentication and role-based access control.
- Structured normalized relational database schema and applied indexing for query optimization.

### Order & Product Management System

Flask, SQLAlchemy, PostgreSQL

- Developed backend modules for product catalog, cart, and order lifecycle management.
- Designed relational schema with foreign key constraints ensuring data integrity.
- Implemented secure input validation and modular architecture using Flask Blueprints.

## Technical Skills

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**Languages:** Python, SQL

**Backend:** Flask, Django, Django REST Framework, REST API Design

**Databases:** PostgreSQL, MySQL, SQLite, Redis

**Core CS:** Data Structures, Algorithms, Time and Space Complexity Analysis

**Tools:** Git, Docker, Linux, AWS

## Coding

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- Solved 250+ algorithmic problems across LeetCode and CodeStudio.
- Comfortable solving medium-level problems involving arrays, hashing, sliding window, recursion, and basic dynamic programming.
- Strong understanding of asymptotic complexity and trade-offs in system performance.