

# Utkarsh Pathak

Delhi, India

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## Education

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

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

Jul 2019 – Jul 2023

## Experience

### Software Engineer Intern

NexiCorn Technologies Pvt. Ltd. (Remote)

Feb 2024 – Aug 2024

- Developed and maintained production-grade REST APIs using Flask for the live platform *JobsOwn*.
- Designed relational database schemas and optimized MySQL queries for scalable backend operations.
- Implemented authentication, request validation, and structured error-handling mechanisms.
- Integrated Redis caching to improve API response performance.
- Containerized backend services using Docker and supported AWS deployment workflows.
- Collaborated with frontend team to integrate APIs and resolve production issues.

## Projects

### AI-Powered ATS Engine

Python, Flask, NLP, TF-IDF, SQLite

- Built AI-based resume screening system to match resumes with job descriptions.
- Implemented TF-IDF vectorization and cosine similarity scoring.
- Developed automated PDF parsing pipeline using PyPDF2.
- Designed ATS-style keyword ranking mechanism.

### Scalable Job Marketplace API

Django, DRF, PostgreSQL

- Designed RESTful APIs for job posting and application workflows.
- Implemented JWT-based authentication and role-based access control.
- Optimized database queries using indexing strategies.

### Order & Inventory Management Backend

Flask, SQLAlchemy, PostgreSQL

- Developed backend modules for product, cart, and order management.
- Designed normalized relational schema with foreign key constraints.
- Implemented secure validation and modular architecture.

## Technical Skills

**Languages:** Python, SQL

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

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

**Core CS:** Data Structures, Algorithms, Time & Space Complexity

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

## Coding

- Solved 200+ algorithmic problems.
- Comfortable with arrays, hashing, recursion, sliding window, and foundational DP patterns.
- Strong understanding of asymptotic complexity and performance trade-offs.