

# Nitesh Kumar

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## PROFESSIONAL SUMMARY

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### Python Backend Developer | Django, REST APIs, AWS, AI/ML Enthusiast | 3+ Years of Experience

Backend engineer with 3+ years of experience building scalable APIs, automation pipelines, and cloud-native systems using Django, Airflow, AWS, and MSSQL. Passionate about integrating AI tools and exploring machine learning applications to solve real-world problems. Proven ability to improve system performance, streamline workflows, and collaborate across teams. Actively seeking impactful roles in innovative, product-driven companies.

## TECHNICAL SKILLS

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**PROGRAMMING LANGUAGE:** Python, JavaScript, HTML, CSS

**FRAMEWORKS & LIBRARIES:** Django, Django Rest Framework, Numpy, Pandas, REST APIs, Celery

**DATABASES:** MySQL, MSSQL, PostgreSQL

**IDE & TOOLS:** Git, Unix, Postman, Putty, Apache Airflow, Azure DevOps, VS Code, PyCharm

**CLOUD & DEVOPS TOOLS:** AWS (Lambda, S3), Firebase (Cloud Messaging), Git, Unix

## PROFESSIONAL EXPERIENCE

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**Tata Consultancy Services Pvt. Ltd, Bangalore**

**April 2021 – Present**

### System Engineer

#### Software Developer | Employee Management System

**Tech Stack:** Python, Django Rest Framework, MSSQL, Firebase, REST APIs

- Developed a scalable Employee Management System with 5+ functional modules (Claims, Leave, Roster, Check-in/Out, Reporting) for 1500+ users across 5 roles.
- Built and optimized 20+ REST APIs with Django DRF, improving integration across web/mobile platforms and enhancing performance by 25%.
- Implemented multi-level claim approvals, bulk processing, and dynamic filters, boosting approval efficiency and maintainability.
- Integrated Firebase Cloud Messaging (FCM) for real-time alerts, increasing user engagement and business productivity by 30%.
- Managed MSSQL database and optimized queries, maintaining 99.9% data integrity and high throughput.
- Delivered 40+ issue resolutions monthly, ensuring 99.9% system uptime; collaborated with frontend teams to reduce UI/API bugs by 20%.
- Oversaw server scaling and manual deployments, improving high-traffic uptime by 30% and ensuring smooth releases.

### Python Developer | CSM Management

**Tech Stack:** Python, Airflow, Django, MySQL, AWS (Lambda, S3)

- Collaborated with 2 cross-functional teams to gather requirements and enhance existing automation scripts, improving overall system workflows by 15%.
- Automated 10+ data pipelines using Apache Airflow by creating new DAG tasks and modifying existing ones, reducing manual intervention by 50%.
- Actively monitored DAG executions, handled failures by collecting failed task data, and manually uploaded it to servers to ensure data integrity and continuity.
- Maintained and optimized MySQL databases, managing 100+ monthly data uploads via AWS Lambda functions triggered from S3, streamlining ETL processes.
- Improved scheduler backend logic using Django, reducing scheduling delays by 20% and increasing system reliability.

## EDUCATION

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**Sharda University, Greater Noida**

**2015-2019**

Bachelor of Technology, Computer Science, 7.1 CGPA