

# NEERAJ KUMAR

Backend Engineer

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## SUMMARY

Backend Engineer with 2+ years of production experience building Python REST APIs, asynchronous Celery worker pipelines, and multi-database integration platforms. At Datachecks, optimized data comparison engine performance, resolved Celery execution bottlenecks, integrated 10+ enterprise database and analytics connectors, and delivered a complete air-gapped deployment on bank-owned RHEL infrastructure. Core stack: FastAPI, Celery, PostgreSQL, Redis, SQLAlchemy, Docker, RabbitMQ.

## EXPERIENCE

### Software Development Engineer I (SDE-I)

Dec 2023 – Present

Datachecks (PLOUTOS AI TECHNOLOGIES PRIVATE LIMITED)

India · Remote

- Engineered database connectors for MSSQL, MySQL, Oracle, Databricks, Sybase IQ, Sybase ASE, Presto, and Trino, expanding platform data source coverage to 10+ targets.
- Optimized large-dataset comparison engine by replacing hash-based diffing with memory-efficient in-process diffing, reducing execution time and memory overhead.
- Designed per-column diff-threshold logic to maximize data difference detection coverage under constrained compute budgets.
- Diagnosed and resolved Celery worker failures in long-running validation and comparison pipelines, significantly improving job completion reliability.
- Delivered complete offline deployment on air-gapped RHEL bank infrastructure with zero internet access, enabling isolated enterprise-grade production installation.

### Python Developer

Oct 2023 – Nov 2023

9AI

India · Remote

- Developed WebSocket API endpoints enabling real-time bidirectional communication between clients and backend services.
- Implemented Redis Pub/Sub messaging patterns to support low-latency event-driven data distribution across services.
- Authored MongoDB aggregation pipeline queries to power analytics dashboards and backend data reporting.

## EDUCATION

### Master of Computer Applications (MCA)

Lovely Professional University · Phagwara, Punjab

Aug 2022 – Jun 2024 · CGPA: 8.30

### Bachelor of Computer Applications (BCA)

Lalit Narayan Mishra Institute of ED and SC · Patna, Bihar

Aug 2019 – Jul 2022 · CGPA: 8.21

## KEY ACHIEVEMENTS

### Torrent-Api-py

FastAPI · Python · Web Scraping · 400+ GitHub Stars

Built a FastAPI service normalizing torrent search and metadata across 15+ providers; accumulated 400+ GitHub stars with active open-source community adoption.

### DogeTheBot

Node.js · WhatsApp Automation · Bot Development

Developed a WhatsApp automation bot with command routing, group management, media processing, and sandboxed code execution.

### UMS-Api

FastAPI · Python · API Design · Reverse Engineering

Reverse-engineered a session-based university portal to expose structured FastAPI REST endpoints for student records and placement workflows.

## LANGUAGES

English ●●●●●  
Hindi ●●●●●

## SKILLS

Python TypeScript SQL C++  
FastAPI Celery SQLAlchemy  
REST APIs aiohttp  
Redis Pub/Sub CLI Tooling  
PostgreSQL Redis MongoDB  
MSSQL MySQL Oracle  
Sybase IQ Sybase ASE  
Databricks Presto Trino  
BigQuery Snowflake Docker  
Kubernetes Helm RabbitMQ  
Alembic GitHub Actions RHEL

