

DIPAN NANDA

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TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Bash
Frameworks: React, Next.js, Django, Vue.js
Cloud/Testing: AWS (S3), Docker, Jest, Pytest, Postman
Databases/Devops: PostgreSQL, SQL Server, CI/CD, GitHub Actions

PROFESSIONAL EXPERIENCE

Applied AGI Brentford, London
Senior Full-Stack Developer Mar 2023 - Present

- Built real-time video annotation platform (React, TypeScript, WebSockets) & cutting labelling time 40% via optimized workflow
- Created Django/OpenCV video pipeline reducing latency 30% with adaptive bitrate HLS streaming
- Developed model evaluation framework (Next.js, MySQL) enabling cross-dataset performance comparisons with statistics
- Led microservices migration (Docker, Kubernetes) achieving 5x deployment frequency & above 98% uptime
- Implemented monitoring (Sentry) and test suites (85% coverage) reducing production incidents by 60%

ETL Systems Rickmansworth, Watford
Python Developer Nov 2022 - Feb 2023

- Redesigned ingestion pipelines (50k+ records/day) and migrated infrastructure to AWS, enabling 35% higher throughput and 40% cost savings via batch processing and auto-scaling.
- Built core API foundation using Django REST framework with secure JWT auth, rate limiting, and centralized integration for all client-facing applications.

IIT Indore Indore, MP
Software Developer Aug 2020 - Sep 2021

- Migrated 5TB medical imaging database to Cassandra cluster, achieving 3x query performance improvement through denormalized schema design
- Created Vue.js dashboard with Plotly visualization, enabling researchers to explore clinical datasets in real-time
- Developed CNN-based diagnostic system, achieving 81% accuracy through optimized OpenCV preprocessing pipeline

RRCAT Indore, MP
Full-stack Developer Jun 2019 - Jun 2020

- Built PySpark pipeline processing 10GB of sensor data with anomaly detection, reducing errors by 25%
- Modernized legacy VB6 applications to PHP/JavaScript stack, improving performance by 30%
- Developed genetic algorithm for airline crew scheduling, reducing manual effort by 75%

EDUCATION

Master of Data Science and Analytics, University of Leeds Sep 2021 - Sep 2022

Bachelor of Computer Science, MITS, Gwalior Aug 2016 - Sep 2020