

# PRINCE KUMAR

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## PROFESSIONAL SUMMARY

Results-driven Software Development Engineer II with 3+ years of experience designing and scaling backend systems with Python, Django, and FastAPI. Proven track record in leading engineering teams, architecting high-availability IoT platforms serving 10,000+ devices, and delivering measurable gains in system performance and deployment efficiency. Active open-source contributor with 10+ merged pull requests to the NetBox project and community plugin maintainer with 1,000+ downloads. Hands-on with Kubernetes, Docker, Prometheus/Grafana observability, and cloud-native CI/CD workflows.

## TECHNICAL SKILLS

**Languages:** Python, SQL, Bash, JavaScript, HTML/CSS

**Frameworks & Libraries:** Django, FastAPI, Flask, Django REST Framework, Celery, Pydantic, MQTT

**Databases:** PostgreSQL, InfluxDB, Redis, MySQL

**Cloud & DevOps:** Docker, Kubernetes, Helm, GitHub Actions, CI/CD Pipelines, AWS (EC2, S3), Windmill

**Observability:** Prometheus, Grafana, InfluxDB Metrics, Structured Logging

**Testing:** pytest, unittest, coverage.py, Test-Driven Development (TDD)

**Tools:** NetBox, Chargebee, Confluence, Git, Docker Hub

**Practices:** Agile/Scrum, Code Review, REST API Design, Microservices Architecture

## PROFESSIONAL EXPERIENCE

### Onemind Services LLC

*Software Development Engineer II*

Remote

*April 2025 – Present*

- Lead a cross-functional team of 10+ engineers on NetBox plugin development; instituted structured code review processes and mentoring practices that reduced bug reports by **30%** and improved sprint velocity.
- Architect and maintain the **Zeus IoT Platform** at **99.9% uptime**, integrating Django, InfluxDB, and MQTT for real-time telemetry ingestion from **10,000+ IoT devices** with sub-second latency.
- Streamlined multi-project release management by standardizing branching strategy and release gates, reducing average release cycle time by **40%**.
- Established engineering best practices (linting standards, pre-commit hooks, API design guidelines) across 3+ active production projects, driving sustained code quality improvements.

### Onemind Services LLC

*Software Developer*

Gurugram, India

*August 2022 – March 2025*

- Designed and delivered **5+ NetBox plugins** from scratch; official community maintainer with **1,000+ downloads**, ensuring compatibility across multiple NetBox versions.
- Re-architected the NetBox API Gateway with **FastAPI**, achieving a **35% reduction in API response latency** via async endpoints, connection pooling, and response caching.
- Refactored Python data-processing pipelines for multi-worker parallel execution, delivering **50% throughput improvement** and enabling horizontal scalability under peak IoT loads.
- Implemented a dual-database architecture (**PostgreSQL + InfluxDB**) for IoT time-series storage, reliably ingesting **10 GB+ of data daily** with zero data loss.
- Built the **Zeus-Webhook** microservice to consume MQTT broker events, processing **50,000+ requests/day** with fault-tolerant retry logic and structured error logging.
- Integrated **Chargebee** subscription billing into the LAP-NG project, automating pricing calculations and improving revenue tracking accuracy by **95%**.
- Authored reusable **GitHub Actions** CI/CD workflows for pytest-based testing, Docker image builds, and private registry deployments, cutting deployment time by **60%**.
- Automated GitHub Releases-to-Confluence documentation sync via Python scripting, eliminating **4+ hours/week** of manual documentation overhead per release cycle.
- Contributed to **Kubernetes** deployment manifests and Windmill-based automation workflows, improving deployment repeatability across staging and production environments.
- Maintained internal Python client libraries for InfluxDB and MQTT communication, sustaining **99.5% system reliability** through proactive testing and version-compatibility management.

## KEY PROJECTS

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- Django Sample App** | *Django, Docker, Kubernetes, PostgreSQL, GitHub Actions* | [GitHub](#) · [Docker Hub](#) Open Source
- Built and published a production-pattern Django application containerized with Docker and deployable via Kubernetes manifests, featuring PostgreSQL support, environment-based config, and non-root container security. Available on Docker Hub as `deskpkumar/django-sample-app` with K8s ConfigMap/Secret examples included.
- GitHub Client API Library** | *Python, REST API, OAuth, Rate Limiting* | [GitHub](#) Open Source
- Building an open-source Python SDK for the GitHub REST API with OAuth, automatic rate-limit handling, pagination, and structured error hierarchy — targeting PyPI distribution.
- NetBox-Secrets Plugin** | *Django, PostgreSQL, AES-256, RBAC* Open Source
- Developed a secrets management plugin with AES-256 encryption at rest, role-based access controls, and a complete audit log for secure network-team credential storage.
- Zeus IoT Data Platform** | *Django, InfluxDB, MQTT, Docker, Kubernetes* Production
- Architected an end-to-end IoT pipeline for real-time ingestion, storage, and visualization of telemetry from 10,000+ devices; maintained 99.9% uptime under sustained production workloads.

## OPEN SOURCE CONTRIBUTIONS

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- NetBox** ([netbox-community](#)) | [github.com/netbox-community/netbox](#) 10+ Merged PRs
- Contributed bug fixes, feature enhancements, and documentation improvements; active community maintainer with plugins on the official NetBox Exchange.

## EDUCATION

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- Bharat Institute of Technology** Meerut, India  
*Master of Computer Applications (MCA)* Sept 2022 – July 2025
- Beacon Institute of Technology** Meerut, India  
*Bachelor of Computer Applications (BCA)* Aug 2019 – Sept 2022

## CERTIFICATIONS & RECOGNITION

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- NetBox Open Source Contributor** — 10+ merged pull requests to [netbox-community/netbox](#)
- Community Plugin Maintainer** — Official maintainer; 1,000+ downloads on NetBox Exchange
- Technical Leadership** — Delivered 5+ major projects on schedule as engineering lead