# Sidharth P

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## Summary

Senior Backend Engineer with 7 years of experience designing and scaling high-availability backend, cloud-native systems for a B2B SaaS platform at Clootrack. Specialized in building robust APIs, distributed task processing systems, and multi-tenant architectures. Strong focus on performance optimization, data consistency, and reliability under scale, with hands-on experience in Python, Django, Celery, and PostgreSQL.

## Work Experience

### **Software Development Engineer III** (Clootrack, Bangalore) — **Oct 2022 - Present**

- Built a scalable authentication backend using JWT-based architecture, supporting MFA (TOTP + email OTP) and federated OIDC login, and replaced Azure AD B2C with self-hosted Zitadel to enable full control over auth flows.
- Designed and built a data processing backend using Django and Celery to ingest and asynchronously process Excel datasets; implemented data validation, transformation pipelines, and integrated with data science workflows to deliver regression-based insights with dynamic recalculation based on user inputs.
- Reduced infrastructure cost by ~50% (₹60L → ₹30L/month) by redesigning backend service deployment and resource utilization strategy; implemented autoscaling, optimized service workloads, and eliminated inefficient compute patterns across distributed systems.
- Architected a multi-tenant backend platform handling tenant isolation, provisioning workflows, and resource orchestration on Azure; reduced onboarding time from 2 days to 2 hours by building automated backend workflows and APIs, improving system reliability, and eliminating manual errors.
- Designed and operated a containerized microservices-based backend system using Docker and Kubernetes; implemented CI/CD pipelines using GitHub Actions, enabling deployments with zero downtime.

### **Software Development Engineer I (**Clootrack, Bangalore) — **Nov 2019 - Sep 2022**

- Designed and implemented asynchronous task processing using Celery and Redis, decoupling heavy operations from the request lifecycle and improving API response times; handled ~200 background jobs/day with monitoring via Flower for queue health and failure visibility
- Optimized database queries and indexing strategies to reduce latency under high load; implemented Redis caching with TTL and invalidation to reduce database pressure and improve API response times.
- Improved backend system reliability by implementing load balancing and traffic routing strategies; reduced error rates and enabled horizontal scaling to handle 5× peak traffic.
- Strengthened backend system reliability and data safety by redesigning network architecture with private VPC, enforcing least-privilege IAM, and implementing automated backups (1-hour RPO) with a tested disaster recovery workflow.
- Built a distributed web crawler with autoscaling and a data processing pipeline; optimized crawling, reducing end-to-end processing time by 40% while maintaining stable latency under traffic spikes.

### **Software Developer Internship** (Clootrack, Bangalore) — **May 2019 - Oct 2019**

- Built RESTful APIs using Django REST Framework for 3 core platform features, integrated with frontend and third-party services.
- Built a shared Python library to standardize health checks across microservices, exposing readiness and liveness endpoints with dependency checks (DB, Redis, Dapr)

## Education & Certifications

- **Btech ECE,** Govt. College of Engineering Wayanad — **2013 - 2017**
- **Adv. Diploma in BigData Analytics** — **2018**
  National Institute of Electronics & Information Technology, Calicut

## Skills

- **Languages:** Python
- **Backend:** Django, REST APIs, Celery
- **Databases:** PostgreSQL, MySQL, Redis
- **Cloud Platforms:** GCP, Azure, AWS
- **Infrastructure:** Docker, Kubernetes, Terraform