

Ashis Kar

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Results-driven Systems engineer with 8+ years of experience building, optimizing, and operating mission-critical infrastructure at scale.

WORK EXPERIENCE

Oracle India Pvt Ltd

01/2022 – 10/2025

Senior Member of Technical Staff • Full-time

Bengaluru, India

Leading provisioning engine for enterprise-scale database infrastructure serving Fortune 500 companies globally.

- **Enterprise Scale Delivery:** Worked on distributed provisioning system across 100+ Exadata systems in 20+ regions; achieved 99.99% uptime SLA supporting mission-critical customer workloads.
- **System Architecture:** Designed microservices using gRPC ; implemented multi-region active-active deployment with automatic failover.
- **Performance Optimization:** Parallelized operations using Python multiprocessing and asyncio; reduced provisioning time from 90s to 15 minutes (80% improvement).
- **Network Infrastructure:** Built automated network diagnostics using tcpdump and packet analysis; reduced MTTR (mean time to recovery) from 30 minutes to <1 minute; resolved complex InfiniBand connectivity issues.
- **Tech Stack:** Python, gRPC, Oracle, Docker, Kubernetes, Virtualization

Xoriant Solutions Pvt Ltd

09/2019 – 01/2022

Senior Software Engineer • Full-time

Pune, India

- **Greenfield Architecture:** Designed 5-microservice architecture (ingestion, processing, analytics, API, reporting) handling 1B+ records/day; achieved 99.95% uptime serving enterprise customers.
- **High-Volume Data Processing:** Built async ingestion pipeline with Celery + Redis Queue processing 160K records/second; zero data loss during traffic spikes; horizontally scalable (50+ workers).
- **API Excellence:** Built production REST APIs with versioning, pagination, rate limiting, idempotency, and webhook integration.
- **Cloud Deployment:** Deployed on AWS (EC2 auto-scaling, RDS PostgreSQL, ElastiCache, S3, Lambda); implemented full CI/CD pipeline with Jenkins and Docker.
- **Tech Stack:** Python, Django, Celery, pandas, NumPy, PostgreSQL, MongoDB, Redis, AWS, Docker, Jenkins.

Harman Connected Services

09/2017 – 10/2019

Full-Stack Python Developer • Full-time

Pune, India

Optimized critical automotive credit platform serving 5000+ dealers and processing millions of daily credit checks.

- **System Optimization:** Improved credit decision latency from 30 seconds to <1 second (60x faster); optimized database queries and indexes reducing report generation time from 2 minutes to 50ms.
- **Async Architecture:** Implemented Celery-based task queue for async credit processing; eliminated timeout issues and enabled parallel credit bureau integrations.
- **Scale Achievement:** Scaled system to handle 3x concurrent dealers without hardware upgrade through intelligent caching (Redis) and query optimization.
- **Multi-Database Strategy:** Optimized dual-database architecture (PostgreSQL for structured data, MongoDB for flexible schemas); improved data access patterns for 10x performance.
- **Tech Stack:** Python, Django, Django REST Framework, PostgreSQL, MongoDB, Redis, Celery

Tech Mahindra Pvt Ltd**12/2014 – 01/2017****Production Support Engineer • Full-time****Pune, India**

Managed production systems for high-traffic platforms. Transitioned from break-fix support to proactive reliability engineering.

- **Root Cause Analysis:** Developed expertise in production debugging; established systematic RCA (Root Cause Analysis) process reducing recurring incidents by 70%.
- **Production Expertise:** Deep understanding of failure modes; enabled engineering teams to design systems anticipating production realities.
- **Business Result:** Significant reduction in revenue-impacting outages; improved customer SLA compliance.

EDUCATION

Bachelor of Technology in Electrical Engineering

Institute of Technical Education & Research, S'O'A University,
Odisha •
GPA: 8.96

Bhubaneswar •
06/2010 – 06/2014

Higher Secondary in Science

Dav Public School • GPA: 80%

Bhubaneswar • 03/2008 – 03/2010

SKILLS

Python, JavaScript, Django, Redis, PostgreSQL, Docker, AWS, OCI, Git, Linux, Virtualization