

AJAY KUMAR

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Education

Cochin University of Science and Technology, B.Tech in Information Technology

2018–2022

Experience

Application Engineer — Oracle, Hyderabad

Aug 2022 – Present

- Built and maintained backend services in Python (FastAPI/Flask) so SaaS customers and internal teams can consume data securely via REST APIs.
- Implemented authentication and authorization patterns (OAuth 2.0, JWT, RBAC), along with request validation, logging, and secure API practices.
- Delivered backend APIs and automation solutions on OCI using Python (FastAPI/Flask), enabling secure data retrieval, transformation, and integrations.
- Managed and optimized OCI resources with focus on availability, security, and cost efficiency; supported cloud networking (VCN, gateways, load balancers).
- Automated operational workflows using OCI Functions (Python) and event-driven integrations; built integrations using Oracle Integration Cloud (OIC).

Mathematics Tutor — LearnersNote (Part-time, Remote — Dubai, United Arab Emirates)

Mar 2019 – Apr 2022

- Taught high school and engineering mathematics, turning dense theory into easy-to-follow lessons.
- Designed practice-heavy sessions to sharpen problem solving and analytical thinking.
- Built a supportive remote classroom culture that kept diverse learners on track.
- Focus: Engineering Mathematics, Discrete Mathematics, Problem-Solving Skills

Projects

- **Subscription Management Backend** (Python, FastAPI, REST): Built a backend service powering credit-card subscriptions for SaaS customers: secure onboarding, plan lifecycle automation, proration, and PCI-aligned payment hooks. Exposed REST APIs for CRM, billing, and analytics teams.
- **Legacy Database Migration to Oracle ATP** (OCI, Oracle ATP, SQL, Data Modeling): Designed and deployed migration from a legacy database system to Oracle Autonomous Transaction Processing (ATP), preserving data integrity with primary/foreign keys, unique/check constraints, and transactional validation. Built reconciliation checks and safe cutover steps to ensure seamless application flow.
- **FastAPI Web Service on OCI** (Python, FastAPI, OCI, REST): Deployed a secure service on OCI VMs for customer/app data consumption and transformation.
- **Oracle ATP Backup & Warehouse Data Flow** (OCI Data Flow, Object Storage, SQL): Implemented a Data Flow-based pipeline to maintain a backup/warehouse-ready copy of ATP data for reporting needs, supporting scheduled extracts, partitioned loads, and recoverable snapshots.
- **Data Restructuring Webservice** (Python, Flask, Pandas, OCI): Restructured Object Storage data to cut manual effort by 80% and improved processing speed.

Technical Skills

- **Core Subjects:** Data Structures & Algorithms, DBMS, Networking, Operating Systems, Cloud Computing, Machine Learning
- **Languages:** Python, C, C++, Java
- **Web:** HTML, CSS, JavaScript, REST APIs
- **Frameworks:** Django, FastAPI, Flask
- **DevOps:** Docker, Kubernetes, Jenkins, Terraform
- **Tools:** Git, Linux, SQL Developer
- **Cloud (OCI):** Compute/VM, Object Storage, Functions, Data Flow, OIC, Data Integration, Load Balancer, ATP, 23AI DB, Event Services, VCN, Gateways, GoldenGate

Certifications

- Oracle Cloud Infrastructure Foundation
- OCI Certified Architect Associate
- OCI AI Foundations Associate
- Oracle Database SQL Certified
- Oracle Certified Professional: Java SE 11 Developer
- Oracle Cloud Platform Application Integration Professional
- Oracle Cloud Data Management