

Manish Utekar

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SKILLS

Technical: SQL, Python, Django, Docker, Kubernetes, Linux, Airflow, Ansible, Kafka, CI/CD, ETL/ELT, Git, GitHub, Jenkins.
Cloud: AWS (S3, Glue, EC2, ECS, SQS, Lambda, Redshift, Athena, Kinesis, Step Functions, RDS, CloudWatch).
Tools & Frameworks: Agile, Flask, SDLC, REST API, TCP/IP, Informatica (Intelligent Cloud Services, PowerCenter), Postman, System Design, Data Structures, Algorithms, Operating Systems, Computer Networking, Distributed Systems.

WORK EXPERIENCE

University of Texas at Arlington

Arlington, TX

Graduate Research Assistant

Jan 2024 – Dec 2024

- Developed and deployed a scalable backend for a student loan management system, managing 10,000+ loan accounts, ensuring 99.9% system uptime, reducing query response times by 40% through database optimization with PostgreSQL.
- Designed RESTful APIs using Python (Flask/Django) for loan disbursement, repayment tracking, and financial aid eligibility, implementing secure access using OAuth 2.0 and JWT authentication to protect sensitive financial data.
- Built and automated ETL pipelines using AWS Glue and Lambda, processing 100,000+ financial transactions monthly, improving loan analytics efficiency by 30% for real-time credit scoring and performance insights.
- Streamlined deployment of the FinTech platform with Docker and Kubernetes on AWS, reducing deployment time by 50%, and implemented real-time monitoring and fraud detection using Amazon CloudWatch and ELK Stack.

Cognizant

Mumbai, India

Programmer Analyst/Software Developer

Aug 2021 - Aug 2023

- Designed 45 client-specific ETL solutions on Informatica Intelligent Cloud Services (IICS), ensuring compliance with standards by collaborating across functions to meet client requirements and deadlines.
- Optimized Informatica's toolkit with SQL, achieving a 25% improvement in database loading times by fine-tuning the processes and addressing performance bottlenecks.
- Implemented end-to-end ETL solutions for complex case studies, successfully scaling systems to handle a 50% increase in data volume without compromising performance.
- Led a team of 5 in the development and deployment of ETL processes, ensuring that all deliverables were completed on time, meeting client specifications and improving overall project efficiency by 15%.
- Mentored junior team members in ETL best practices, resulting in a 10% reduction in development time for key projects and increasing team productivity.

Ramrao Adik Institute

Mumbai, India

Software Development Engineer Intern

Jan 2021 - May 2021

- Led the development of a University System Management project, integrating 10+ data sources into a centralized warehouse with Python and Apache Airflow, improving data accessibility.
- Created a Tableau dashboard providing real-time insights for 9 departments, boosting enrolment projections by 15% and budget planning accuracy by 20% through predictive analytics.
- Ensured data security compliance, optimizing operational efficiency and resource allocation, contributing to improved data governance.

PROJECTS

Personal Finance Management System

July 2024 - Sep 2024

- Designed and implemented a Personal Finance Management System backend using Python (Flask/Django), managing 10,000+ users and processing 1M+ monthly transactions with a 99.9% uptime.
- Developed RESTful APIs for expense tracking, budgeting, and financial goal-setting, reducing API response time by 40% and securing endpoints with OAuth 2.0 and JWT authentication.
- Built and deployed scalable microservices on AWS (S3, Lambda, RDS) and Docker/Kubernetes, enabling seamless horizontal scaling and reducing deployment time by 50%.

EDUCATION

University of Texas at Arlington

Arlington, TX

Masters of Science in Applied Statistics and Data Science (GPA: 3.83/4)

Aug 2023 - Dec 2024

University of Mumbai

Mumbai, India

Bachelor of Technology in Computer Engineering (GPA: 8.10/10)

July 2017 – May 2021