Ketan Maurya

Creative and Innovative Software Engineer

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Profiles

 Ketz7   in Ketan Maurya

Summary

A results-driven Software Engineer with experience implementing advanced technology and business solutions in finance, real estate, and Ad tech. Adept at coordinating with technical teams and stakeholders to manage large-scale projects and deployments.

Skills

Programming Languages	Python	Php	Perl	Javascript
Databases	MySQL	SQL Server	PostgresSQL	Redis
Cloud Technologies	Heroku	AWS	Azure	Snowflake
DevOps	Terraform	Git	Docker	GitHub Actions

Professional Experience

Factset   Sep 2022 - Present
Software Engineer - III   Hyderabad(Remote)
🔗 https://www.factset.com/

- Developed a FastAPI application to securely fetch passwords from AWS Secret Manager, integrating middleware and Redis caching, leading to a 40% improvement in performance and reducing security risks by 30%.
- Migrated complex CI/CD pipelines from Jenkins to GitHub Actions, integrating SonarQube for code quality checks, resulting in a 50% faster deployment and a 25% increase in code reliability.
- Developed a RAG-based semantic search engine using LLMs and LangChain for financial document insights, enhancing document retrieval efficiency by 45%.
- Designed complex data pipelines for bulk file transfers, reducing storage costs by 50% through a serverless retrieval mechanism.
- Migrated legacy data feeds to Snowflake and automated delivery pipelines, cutting operational costs by 80% and increasing efficiency by 60%.
- Created a scalable, serverless PySpark Rules Engine in AWS, reducing development time for ETL processes by 70% and enabling faster project delivery.
- Managed data curation and transformations, enhancing the client experience for over 4,000 customers and reducing data delivery times by 30%.
- Built and delivered 30+ data feeds for Banking, Insurance, and Oil & Gas sectors using Airflow, maintaining 100% on-time delivery with agile practices.
- Automated and redesigned data pipeline architectures, achieving a 35% cost reduction and significant performance gains across systems.
- Streamlined blue-green deployments using Terraform, improving deployment reliability by 40% across multiple projects.
- Designed and developed event-driven, serverless ETL pipelines for data providers with Airflow, increasing data processing speed by 50%.
- Developed centralized serverless API endpoints in AWS, supporting various data feeds and document types, boosting integration efficiency by 30%.
- Authored technical documentation for ETL pipelines and resolved high-priority bug fixes, reducing resolution time by 20%.
- Mentored junior engineers, resulting in a 50% faster onboarding process and improving their ability to handle complex data transformations independently.

Blkbox.ai   May 2022 - Sep 2022
Software Engineer   California, USA
🔗 https://blkbox.ai/

- Implemented and managed core algorithms handling $2M monthly advertisement spend, and built a Slack notification framework for key business algorithms.
- Developed webhooks, third-party integrations, scheduled jobs, and new APIs for the main SaaS platform, including bug fixes.
- Created a report generation and delivery tool, serving as a single source of truth for clients' ad spend, and developed internal tools and reporting dashboards for the team.
- Developed and hosted a machine learning server for large ML models.
- Built CI/CD pipelines and scheduled test runs using CircleCI.

Radius   Aug 2020 - Dec 2021
Integrations Engineer   Banglore, IN
🔗 https://www.radiusagent.com/

- Defined, designed, and implemented data analytics strategies for sales, marketing, and retention teams. The analytics data I provided served as a single source of truth for their day-to-day operations.
- Developed and managed third-party integrations, enhancing user retention and reducing costs by $500/month with a geocoding solution.
- Built REST APIs (Laravel, Flask, Express, FastAPI) and transitioned standalone services into Docker microservices.
- Utilized AWS (S3, SQS) and GCP for object storage, queue management, and development server testing.
- Automated workflows on the Zapier platform and created internal KPI dashboards for data analytics.

Education

NorthUmbria University   Sep 2017 - Mar 2019
Electrical and Electronics Engineering   Bachelors(Honours)
New Castle, UK

VPM's Polytechnic   Jun 2014 - May 2017
Instrumentation   Diploma
Mumbai, IN

Languages

English   Hindi   French

Certifications

AWS Certified Developer – Associate   July 2024
Amazon

Terraform Associate (003)   July 2023
HashiCorp

Google GCP essentials   Nov 2019
Google

Certified Data Analyst   Aug 2019
STECHUP

SAP01   Dec 2016
SAP

Post Graduate Diploma in Embedded Systems   Jan 2016
Prolific Systems & Technologies

Introduction to Material Test and Measurement Instruments   Jan 2016
Taber Industries (New Albany, USA)

Training in Measurement and Control of Optical Properties of Paper   Jan 2016
Technidyne Corporation (New Albany, USA)

Training in Force and Torque Measurement   Jan 2016
MARK-10 (New York, USA)

Robotics Competition   Feb 2015
Robotryst

Science Olympia   2009, 2010, '11
Maharshtra Government

Mathematics Championship   Sep 2006
Ganit Sambodh (Maharshtra Government)

Projects

Automatic Location Based Payment System   Arduino, Python, SQL

Implemented an automatic payment system using rfid module with arduino and a gui using python as well as a database for the products/customer data.

Temperature Control and Monitoring System   Embedded C, Python, SQL

Determining and maintaining the temperature in a control system for a food processing/plant process using transducers, customized PCBs, and user interface using Python and a database.

Volunteering

National Service Scheme (NSS)   Jun 2008 - Jun 2011
Member   Mumbai