

Shekhar Paudel

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SUMMARY

SENIOR DATA ENGINEER | DATA WAREHOUSING & ML DATA ENGINEER | FULL STACK DEVELOPER with 9+ years building high-impact data platforms and pipelines for banking, fintech, distribution and import sectors. Expert at designing green-field enterprise data warehouses, developing data engineering software, automating scalable pipelines, and deploying analytics and ML solutions that unlock business value. Adept at leading small teams, governing data, and building scalable cloud-hybrid and cost-efficient infrastructure and software.

CORE SKILLS

- **Programming Languages:** Python, T-SQL, Powershell, Shell, C#, JavaScript, Typescript, HTML, CSS
- **Databases:** SQL Server, PostgreSQL, MySQL/MariaDB, MongoDB, Redis, InfluxDB
- **Analytics & BI:** Jupyter Notebook, Tableau, Splunk, PowerBI
- **Monitoring & Analytics:** Grafana, Kibana, Splunk, SolarWinds DPA/SAM/NPM, Elasticsearch
- **Cloud Platforms:** Azure (SQL, Data Lake, Data Factory, Function App, Logic App, Vault, Service Bus), AWS (RDS, S3, Glue, Lambda, Step Functions, Secrets Manager), GCP (BigQuery, Firebase, Cloud Storage)
- **Virtualization & Containerization:** Docker, Kubernetes, Portainer, VMware ESXi, Proxmox, Hyper-V
- **Project & Workflow Tools:** Jira, GitHub, Azure DevOps
- **ML:** PyTorch, TensorFlow, SciKit-Learn, XGBoost, Deep Learning, Fine-Tuning, RAG, Model Deployment
- **Other:** Apache Kafka, Apache Airflow, Apache Spark, Hive, Snowflake, dbt, Minio

PROFESSIONAL EXPERIENCE

MB&T

August 2021 – Present

Senior Data Engineer

- Architected and launched a cloud-hybrid Enterprise Data Warehouse ingesting 100+ sources, providing a single source of truth for analytics and workflow automation.
- Designed and implemented highly available, scalable serverless microservices in Python to automate data ingestion and modeling pipelines, processing terabytes of delta data quarterly and reducing new-source onboarding time from 2 weeks to under 24 hours.
- Deployed XGBoost-based machine learning models to power product recommendations and uncover cross-sell opportunities.
- Collaborated with the Director of Data Science to lead a small data team and establish a quarterly data governance board with C-suite to shape data and AI strategy and policy.

MSI

May 2019 – August 2021

Database Administrator

- Rebuilt complete OLTP/OLAP infrastructure post-ransomware attack without paying ransom; fully restored data and resumed operations within 3 days.
- Strengthened security and disaster recovery policies, maintaining zero critical SQL vulnerabilities across multiple consecutive audits.
- Implemented SQL Source Control workflows and provided training and performance optimization for 60+ developers, significantly improving query efficiency.
- Automated administrative workflows and system monitoring through custom scripting, reducing manual workload and improving response times.
- Designed and built scalable data pipelines and models to support downstream analytics and reporting.
- Led proof-of-concept initiatives to evaluate and introduce real-time data streaming and replication services.

Wedbush

April 2018 – May 2019

Database Administrator

- Refactored legacy ETL processes, eliminating manual interventions and significantly improving job success rates.
- Developed proactive alerting and replication health checks using custom monitoring scripts and metrics.
- Upgraded and migrated production SQL Server environments to prevent end-of-life (EOL) risks and ensure platform stability.

PIT Solutions

September 2015 – October 2017

Database Engineer

- Designed and deployed SSIS pipelines and SSRS dashboards to support business intelligence initiatives.
- Optimized T-SQL procedures and enhanced performance of SSIS/SSRS packages.
- Managed and maintained the SSRS server environment, ensuring high availability and report accuracy.

CERTIFICATIONS

- Scrum Alliance - Certified ScrumMaster (CSM)
- Azure Solutions Architect Expert
- DevOps Engineer Expert
- Azure Developer Associate
- Azure Administrator Associate
- Azure Data Engineer Associate

SELECT PROJECT

- **Custom Book**(MVP, Active Development): Full-stack application for creating personalized children's books as meaningful, one-of-a-kind gifts. Built with Python, React(via Next.js), TypeScript, CSS, and HTML, the app uses conversational AI and microservices architecture to generate custom narratives and illustrations. A fully automated backend pipeline handles creating, printing, and shipping. The application is deployed on a self-hosted, multi-location Kubernetes cluster, ensuring high availability and scalability. Explore this and other projects at shekharpaudel.com
- **Dharma Guru**(Prototype, Active Development): Full-stack application featuring an interactive voice-to-voice AI Dharma Guru, fine-tuned on traditional religious texts to deliver culturally grounded guidance on rituals, customs, and spiritual practices. Uses Retrieval-Augmented Generation (RAG) to reference canonical sources in real time, significantly reducing hallucinations and ensuring accurate, context-aware responses. It generates personalized birth charts (Kundali) and provides tailored advice on auspicious timings and methods for performing traditional Nepali ceremonies. Explore this and more projects at shekharpaudel.com

EDUCATION

Bachelor of Science, University of California, Santa Barbara