BHAVIK MUNDRA

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SUMMARY

Data Engineer with 1+ years at TCS (Vanguard client), delivering production PySpark ETL pipelines on AWS Glue and EMR on EKS. 2× AWS Certified. Seeking to leverage expertise in cloud architecture and software development to solve complex engineering challenges.

EXPERIENCE

Data Engineer – Tata Consultancy Services — Mar 2025 - Present
Vanguard Project — Client-Embedded Team — *Indore, India*

- Collaborated directly with Vanguard's US-based team to migrate mainframe/COBOL ETL jobs and DB2 data to AWS, enabling real-time client portfolio calculations.
- Developed production-grade PySpark ETL pipelines in AWS Glue, serverless Lambda functions, orchestrated via Step Functions, with S3 storage and CloudFormation (IaC).
- Designed secure, cost-efficient AWS architecture for regulated financial workloads.

SDE Intern – Mitsogo Technologies — Jan 2024 - May 2024
Hexnode — *Chennai, India*

- Engineered secure authentication microservices for Hexnode using FastAPI and AWS Cognito.
- Built scalable backend features with Django and PostgreSQL, and authored comprehensive unit tests to ensure high system reliability.

TECHNICAL SKILLS

Cloud Platforms	AWS (Glue, PySpark ETL, Lambda, Step Functions, S3, EMR on EKS, Kinesis, CloudFormation)
Big Data	PySpark, Spark Streaming, Apache Iceberg, Athena
Languages	Python, C, C++, Java, SQL, Bash
Frameworks	Pandas, NumPy, Flask, Django
Databases	PostgreSQL, MySQL, MongoDB, DynamoDB

PROJECTS

Sentinel Stream: Real-Time Fraud Detection [GitHub]
Built a real-time fraud detection pipeline on AWS using Kinesis, Glue PySpark streaming, and S3 Bronze/Silver/Gold layers. Implemented window-based fraud risk scoring and automated crawlers, then integrated Lambda + SNS alerts for high-risk events with CloudFormation + GitHub Actions deployment.

CloudForge CLI [GitHub]
Developed a Python CLI using Typer and Jinja2 to dynamically scaffold AWS serverless projects and CI/CD pipelines from terminal prompts. Integrated the GitHub REST API to automate repository creation and boilerplate code pushes, streamlining developer setup.

EDUCATION

Bachelor of Technology in Computer Science and Engineering — 2020 - 2024
Acropolis Institute of Technology and Research, Indore — CGPA: 7.86

CERTIFICATION

- [AWS Certified Solutions Architect – Associate]
- [AWS Certified Cloud Practitioner]