ABHISHEK KUMAR

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Summary

MCA Cloud student and data engineering intern with two live shipped products: a Terraform-provisioned AWS cost dashboard on Lambda APIs and a fraud detection system for 1,000+ customers in PostgreSQL. Specialties include Python, SQL, REST APIs, Terraform, Docker, AWS, and Azure.

Skills

Frontend	HTML, CSS, JavaScript, React.js
Programming and APIs	Python, Java, Node.js, SQL, JSON, REST APIs
Cloud and Infra	AWS (EC2, S3, VPC, IAM, ECS, API Gateway, Lambda, CodePipeline), GCP (AI APIs, Firebase), Azure (VM, ADF, App Service), Terraform, Docker, Kubernetes, CI/CD, Cloudflare
Data Engineering	PySpark, Databricks, PostgreSQL, MySQL, MongoDB
Identity and Security	AWS IAM, API key authentication
Version Control System	Git, GitHub

Internships

Data Engineering Intern — June 2026 – July 2026

J2D Technologies Pvt. Ltd., Bengaluru

- Designed and deployed **Azure Data Factory (ADF) pipelines** for scheduled data ingestion, applying infrastructure and configuration management principles.
- Authored **Python and PySpark scripts** to automate large scale data transformations and created a **Databricks monitoring dashboard**, cutting processing time by **20%**.
- Monitored **pipeline runs** and **processing metrics** through the **Databricks dashboard** to keep ingestion reliable.

Projects

Opti Advisr - AWS Cost Optimizer Dashboard — *GitHub* | *Live* | *Article*

- Provisioned **AWS infrastructure** with **Terraform** (**API Gateway, IAM, EC2, RDS, S3** state bucket) in ap-south-1, powering live cost and resource data for a **3-person team** project.
- Developed the **Resource Manager Lambda** behind **4 API-key-protected API Gateway routes** serving live cost and resource data to a **React** frontend.
- Deployed the full stack behind a **Cloudflare Worker** proxying API calls with the key injected server side, keeping the API key out of the frontend build.

FinGuard - Real-Time Credit Card Fraud Detection — *GitHub* | *Live*

- Implemented a **3 layer Bronze-Silver-Gold medallion architecture** on **Delta Lake**, validating outputs at each stage and documenting data quality findings.
- Launched a **real time monitoring dashboard** with **instant alert emails**, integrating master records for **1,000+ customers** via **PostgreSQL** batch ingestion.
- Validated **fraud alert emails** on every Gold layer detection event, documenting results and issues found.

Education

MCA, Cloud Technology	JAIN (Deemed-to-be-University), Bengaluru	SGPA: 8.3/10	Aug 2025 – present
BCA	Aryabhatta Knowledge University, Patna	CGPA: 8.2/10	June 2021 – Aug 2024

Certifications

AWS Academy (Cloud Architect), AWS (CI/CD), AWS Academy (Microservices and CI/CD Pipeline Builder), AWS (Cloud Practitioner), Oracle (OCI AI), Databricks (GenAI), Google (Python), Meta (MySQL), Anthropic (MCP), Accenture (AI) & Deloitte (Real-world Readiness).

Accomplishments

- Published a Medium article explaining the Opti Advisr cost dashboard to a general audience.
- Completed Ordered Data Structures from University of Illinois via Coursera.
- Led a 5-member college team managing DNS records and troubleshooting for all teams' portfolio deployments.