# Aman Patra

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## Education

| Degree | Institute | CGPA / % | Year |
|---|---|---|---|
| B.Tech – Computer Science | Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar | **8.45 (Current)** | 2023–2027 |
| Senior Secondary (XII) | DAV Public School, CBSE | 89% | 2023 |
| Secondary (X) | AG School, ICSE | 94% | 2021 |

## Technical Skills

**Languages:** C++, Java, Python, SQL, JavaScript
**Frontend & Web:** React.js, REST APIs
**Backend & Systems:** FastAPI, Node.js, Apache Kafka, PySpark, Apache Airflow, Linux/Bash, Docker, Docker Compose
**Databases & Tools:** MySQL, PostgreSQL, MongoDB, Cassandra, SAP HANA, Git/GitHub, PyTest

## Experience

**Haldia Petrochemicals Limited** Kolkata, West Bengal
*SAP-ABAP Development Intern* May 2025 – Jun 2025

- Engineered an enterprise-grade data management system on SAP HANA, centralizing and securing **10,000+** relational records to support enterprise data governance and regulatory compliance.
- Optimized database schema and SQL query logic, reducing complex query latency by **40%** and improving performance for analytics and reporting workflows.
- Developed automated data validation and role-based access control workflows using SAP Module Pool Programming, reducing data ingestion errors by **80%** and improving operational reliability.

## Projects

**ResQ-AI – Intelligent Disaster Response Platform** GitHub
*React.js, FastAPI, Python, MongoDB, OpenCV*

- Built a full-stack incident response platform with a React dashboard and FastAPI backend to ingest, manage, and visualize real-time emergency reports across **500+** live incident nodes.
- Developed modular REST endpoints and backend workflows for alert processing, incident updates, and dashboard synchronization, supporting **50+** concurrent streaming requests with sub-**300 ms** updates.
- Collaborated in a **6-member** team, managed **30+** GitHub pull requests, and resolved cross-module integration issues in an iterative development workflow.

**Resume Matcher – Resume Analysis Engine** GitHub
*Python, FastAPI, MongoDB, REST APIs, PyTest*

- Developed a backend application for automated resume parsing and job matching, exposing scalable REST APIs for candidate data ingestion, scoring, and structured result delivery.
- Architected an asynchronous FastAPI service with MongoDB integration to handle concurrent multi-document requests efficiently, reducing end-to-end latency by **30%**.
- Implemented automated testing with PyTest and achieved **95%** code coverage, strengthening code quality, debugging confidence, and release readiness.

**Real-Time Distributed ETL Data Pipeline** GitHub
*Python, Apache Kafka, PySpark, Apache Airflow, Cassandra, Docker*

- Architected a containerized real-time ETL pipeline using Docker and Docker Compose, enabling portable deployment and modular integration across ingestion, processing, and storage services.
- Built fault-tolerant data ingestion and scheduling workflows with Apache Airflow and REST API connectors, improving reliability of recurring pipeline execution and failure recovery.
- Designed a distributed streaming architecture with Kafka, Zookeeper, and PySpark to process live event streams and persist transformed outputs in Cassandra for low-latency querying.

## Certifications

- OCI Certified AI Foundations Associate – Oracle Cloud Infrastructure
- OCI Generative AI Professional – Oracle Cloud Infrastructure
- Frontend Development Professional Certificate – Meta (Coursera)