SAGARIKA MISHRA

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PROFESSIONAL SUMMARY

Highly results-driven Software Engineer specializing in Python-based ETL pipelines, secure data processing, and automated reporting workflows. Skilled in Pandas, SQL, REST APIs, and AWS. Experienced in AES-256 encrypted data handling across Oracle & PostgreSQL, delivering scalable backend & full-stack applications with React & Node.js.

EXPERIENCE

Software Development Engineer Intern | KFin Technologies Limited   May - Nov, 2025

- **Development and optimization** of high-volume **Python-Pandas ETL pipelines** processing **1,000+ daily transactions**, achieving a **40% boost in efficiency**.
- Secured sensitive financial data by implementing **AES-256 encryption/decryption** across **Oracle (DBMS_CRYPTO/PL/SQL)** and **PostgreSQL** to ensure secure cross-platform data exchange.
- Engineered dynamic financial reporting modules featuring client-configurable parameters, automated email alerts, and comprehensive data validation flags.
- Automated data ingestion and reporting workflows with integrated log monitoring, unit testing, and full AWS-based deployment using CI/CD practices.

SKILLS

- **Programming & Backend:** Python, NumPy, Pandas, Java, Node.js
- **Databases & ETL**: MySQL, Oracle, PostgreSQL, SAP HANA, ETL Pipelines
- **Web Development:** HTML, CSS, JavaScript, React.js
- **SAP:** SAP ABAP, Data Dictionary, CDS Views, OData V4, RAP, Fiori Elements
- **Developer Tools:** Eclipse, VS Code, Git, Postman

EDUCATION & CERTIFICATIONS

SILICON UNIVERSITY | *Bhubaneswar, Odisha* **Bachelor of Technology in Computer Science & Technology**
CGPA: 7.95   2021 – 2025

Certifications & Training:

- **SAP Certified Associate - Back-End Developer - ABAP Cloud**
- **SAP ABAP Trainee (EME):** Hands-on experience with core ABAP, **RAP**, and **Fiori Element**
- **MERN Stack Trainee:** Focused on front-end development and responsive design using **React**

PROJECTS

Database Encryption & Decryption Implementation | Oracle & PostgreSQL   Oct 2025

- Implemented **AES-256 encryption** using Oracle **DBMS_CRYPTO** and PL/SQL procedures to secure personal data
- Developed **automatic triggers** to encrypt fields like **Name, DOB, and Employee ID** during all INSERT/UPDATE operations, ensuring continuous data protection
- Utilized **Base64 encoding** to enable secure transmission and compatibility across systems
- Built a **PostgreSQL decryption module** enabling seamless **cross-database data exchange** and real-time decryption of Oracle-encrypted data
- Validated encryption/decryption across tech stacks by integrating the process with **Python**, ensuring platform-independent compatibility and reliability
- Enhanced **data security, compliance, and audit readiness** aligned with enterprise standards and regulatory expectations

Automated API-Based ETL Pipeline | Python, Pandas | Automated Data Processing   Nov 2025

- Developed an **automated ETL pipeline** to ingest high-volume data via **REST API calls**, process it, and load it into multiple databases for downstream analytics
- Implemented **data transformation, cleansing, and null-value filtration**, applying validation rules to ensure consistent, high-quality datasets

- Built a **config-driven, scalable ingestion framework** supporting multiple API endpoints with **pagination handling and bulk data extraction**
- Utilized a centralized **DataDumpManager** for efficient **database connection management** and structured data loading with proper schema mapping
- Integrated **cron job scheduling**, automated execution cycles, and **logging & exception handling** to enhance reliability and monitoring
- Enabled automated **summary email notifications**, complete audit logs, and graceful pipeline shutdown after successful processing

ETL Pipeline for Financial Transactions | Python, Pandas   Sept 2025
- Developed and automated a **dynamic ETL pipeline** using **Python, Pandas**, and **JSON-based configuration** to extract, transform, and load large-scale financial transaction data from multiple CSV sources
- Implemented complex **data transformation logic** using **groupby, aggregation, sum, count-distinct**, and multi-level grouping keys to generate **client-specific analytics and reports** across diverse financial dimensions
- Built a **config-driven framework (config.json)** enabling dynamic parameter handling (e.g., **date range, visibility controls, grouping attributes**), allowing seamless customization without changing code
- Engineered **date-based calculations** with sorting techniques to derive accurate **opening and closing balances**, improving transparency and audit-readiness
- Added **data validation, automated scheduling, and error handling**, improving **accuracy, scalability, and processing efficiency** across the reporting workflow

ABAP RAP Application Development – Managed Scenario | CDS Views, OData V4, Fiori Elements   May 2025
- Built an end-to-end RAP application by designing data models using **CDS Views (Base, Interface, Consumption)**, implementing **Behavior Definitions & Implementations** for **CRUD operations**, and applying validations and determinations within the RAP business object layer
- Leveraged **Managed Scenario** for automated transactional handling, locking, and consistency control, and enhanced UI behavior using **metadata extensions** for annotations, value helps, and field formatting
- Exposed backend functionality as an **OData V4 service** and integrated with **Fiori Elements (List Report/Object Page)** to provide a responsive UI and real-time data interaction without manual UI5 coding

Fitness Platform Development | React.js, JS, HTML, CSS   Aug 2024
- Developed a fully responsive **fitness and wellness website** using **React, HTML, CSS, and JavaScript**, featuring dynamic pages such as Workout Categories, Live Sessions, Trainer Profiles, Membership Plans, and User Dashboard with smooth navigation via **React Router**
- Integrated **mock APIs and a basic Node.js backend** to simulate real application workflows for session booking, membership management, and user interactions, along with **search, filter, and plan selection** capabilities for enhanced engagement
- Built a modern, scalable UI using **reusable React components, mobile-first layouts, and state management with React Hooks (useState, useEffect)**, improving performance, responsiveness, and overall user experience