

# Pratik Patra

Data Engineer

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## Experience

### Software Engineer III - HashedIn by Deloitte [Jan 2022 – Present]

#### Project 1 | Industry: Capital Markets | Role: Software Engineer

- Led a 5-member development team to successfully deliver the modernization of Cost Basis statements, overseeing design, implementation, and seamless production deployment.
- Architected and deployed scalable AWS data pipelines using Glue, Lambda, and CloudFormation Templates, ensuring automation, cross-account data flow, and real-time notifications with SNS-SQS.
- Transformed legacy systems by reverse-engineering code, drafting comprehensive requirement and low-level design documents, and ensuring end-to-end functional parity in the cloud.
- Pioneered the setup of the first ORDS consumer cluster for cost basis, collaborating with DBAAS teams and resolving complex integration issues across Redshift, Aurora, and DB2.
- Delivered 10+ production-grade enhancements in cost basis jobs, including custom filtration logic, custodian comment handling, and mutual fund validation—dramatically increasing accuracy and transparency.
- Reduced manual effort by up to 90% by building Python-based comparison tools to analyse unpredictable data from legacy vs. cloud systems.
- Suggested key architectural changes such as decoupling Lambda from Glue, resulting in significant cost savings and runtime optimization.
- Ensured flawless production deployments by coordinating with IAM, Prod Support, Tech Approvers, and external teams, while handling network-level Glue connector issues under pressure.
- Integrated strict code quality controls into CI/CD workflows, introduced SonarQube compliance, and established best practices as a benchmark for team coding standards.
- Mentored junior developers and new joiners, drove sprint planning with stakeholders, and maintained strong communication with cross-functional teams.

#### Project 2 | Industry: Health Care | Role: Software Engineer

- Migrated approximately 300 tables from Hadoop to Snowflake to enhance data accessibility, scalability, and security for research advancements.
- Developed ETL pipelines using **Python, PySpark, and AWS services (Lambda, Glue, Step Functions)** for data extraction, transformation, and loading.
- Implemented tokenization and encryption functions for PHI/PII data to adhere to client data security policies.
- Utilized **Python scripts** for generating tokenized files and partitioned **SQL scripts**, reducing manual efforts by 90%.
- Coordinated with clients and senior stakeholders to resolve blockers and dependencies.

#### Project 3 | Industry: Health Care | Role: Software Engineer

- Enhanced existing features and incorporated new features for claims settlement solutions.
- Developed complex T-SQL queries and stored procedures for efficient data retrieval and manipulation.
- Designed and maintained data models for improved organization and accessibility.
- Collaborated with cross-functional teams to deliver data solutions on time and within budget.
- Created SSIS packages for data extraction, transformation, and loading, reducing processing time by 30%.
- Implemented error handling and logging mechanisms to ensure data integrity.
- Conducted data quality assessments and cleansing processes to enhance data accuracy.

### Release(DevOps) Engineer - ADP [Aug 2021 - Jan 2022]

#### Project 1 | Industry: HCM | Role: Software Engineer

- Optimized database rollover process, saving 50% of resources for client training.
- Improved reverse proxy for faster routing and loading mapping files.
- Managed product owner environments on a daily basis.
- Worked on build & release processes and modules for new client onboarding and user management.

### Systems Engineer(MSBI Developer) - Infosys [Dec 2019 - Aug 2021]

#### Project 1 | Industry: Energy | Role: Software Engineer

- Developed ETL packages in SSIS for legacy data conversion automation.
- Prepared SQL queries and stored procedures for Business Intelligence tasks.
- Configured and deployed parameterized SSRS & Power BI reports for data visualization.
- Identified bottlenecks in SSIS solutions, tuned SQL queries, and provided post-deployment support to clients.
- Administered and enhanced Power BI & SSRS reports as per user requests.

## Skills

### Programming & Development

- Languages & Frameworks: Python, SQL
- Data Structures & Algorithms

### Data Management & ETL Tools

- SQL & Databases: MS-SQL, Oracle, PostgreSQL, Snowflake
- ETL Tools: SSIS, Python, PySpark

### Cloud Platforms & Services

- AWS: S3, Lambda, Glue, IAM, SNS, Step Functions, EC2, Redshift
- GCP : (Basic Hands-on Experience)

### DevOps & Version Control

- Tools: Git, Bitbucket, Docker

### APIs & Libraries

- REST API Testing: Postman
- Data Analysis Libraries: Pandas, NumPy

**Soft skills**

- Sprint Management
- Requirement Gathering
- Team Leadership
- Stakeholder Management
- Conflict Resolution
- Effective Communication

**Academics**

Degree	Board	Institute	Stream	Year	Score
B. Tech	BPUT, Odisha	IGIT Sarang	Major: Electrical Engineering	2019	7.65 CGPA
+2	CHSE, Odisha	U.N(Jr.) College	Science (PCM)	2015	71.00%
10 <sup>th</sup>	BSE, Odisha	G.B. High School		2013	81.17%