

# Siddhartha Singh

+36 205143589 / +91 7827489494(whatsapp) | inbox.siddharthasingh@gmail.com | Budapest

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## Summary

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IT professional having total 13+ years of experience in application development and support roles in Banking Domain including payments and Regulatory Reporting and Healthcare domain. 6+ years of experience specializing in PySpark and AWS Cloud. Demonstrated expertise in designing, developing, and deploying scalable ETL pipelines and data processing frameworks. Proficient in utilizing AWS services to optimize performance, reduce costs, and enhance security. Adept at collaborating with cross-functional teams to deliver high-quality solutions in fast-paced environments.

## Experience

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### Tata Consultancy Services (TCS) | Budapest

#### Assistant Consultant | 05/2022 - Present

- Designed and implemented scalable ETL pipelines using PySpark and AWS Glue to process and transform large datasets from diverse sources.
- Migrated on-premise data processing workflows to AWS Cloud, resulting in a 40% reduction in operational costs.
- Collaborated with data scientists and analysts to develop data models and analytics solutions using AWS Redshift and Athena.
- Automated deployment and monitoring of ETL processes using AWS Lambda, CloudWatch, and Step Functions, improving system reliability and reducing manual intervention.
- Implemented data partitioning and compression techniques, significantly enhancing query performance and reducing storage costs.
- Designing and building a serverless architecture for application.

Environment: AWS Glue, S3, RDS, DynamoDB, API Gateway, Lambda, VPC, Athena, CloudWatch, CloudTrail, IAM User and Role, Python, Java.

### Tata Consultancy Services (TCS) | Pune

#### Assistant Consultant | 05/2018 - 04/2022

- Developed custom ETL solutions using AWS Glue to ingest and transform data from various sources, including RDS, S3, and on-premise databases.
- Implemented Spark optimization techniques and analyzed their impact on query performance and resource utilization.
- Collaborated with stakeholders to gather requirements and design data solutions that supported business objectives and analytics initiatives.
- Implemented data validation and quality checks using Python and PySpark, ensuring data accuracy and consistency.

Environment: AWS Glue, S3, RDS, DynamoDB, API Gateway, Lambda, VPC, Athena, CloudWatch, CloudTrail, IAM , Python, Java, Config, CloudFront

### Tata Consultancy Services (TCS) | Pune

#### IT Analyst | 05/2016 - 04/2018

- Develop/enhance modules related to Payments, Deposit and Regulatory & Compliance for multiple countries
- Working as SME for Unified Payments Interface (UPI) module
- Design solution and provide technical implementation using Agile methodology
- Coding as per the Customer Requirement, Unit Testing, Code Review and Deployment to UAT, production and provide warranty support for live projects
- Involved in migration of existing MQ based services to IWS microservices API
- Developed functionality to link customer AADHAR number via various channels like staff & IVR.
- Involved in Global & country specific Regulatory Reporting projects e.g. FATCA, CRS for multiple countries
- Modularization and decoupling of India local payment system like NEFT/RTGS

Environment: IBM iSeries, RPGLE, CLLE, SQLRPGLE, DB2, RDi, Jira, Jenkins

### Dell International Services | Noida

#### Software Dev Analyst | 10/2011 - 05/2016

- Requirement Analysis and preparation of Functional & Technical document
- Coding, Unit Testing and Review as per the technical requirement
- Working on defect Analysis & fix and provide RCA to on-shore Team
- Providing L2/L3 Application & Batch support in various shifts

Environment: IBM iSeries, RPGLE, CLLE, SQLRPGLE, DB2, Medseies4

## **Skills**

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AWS Glue, PySpark, S3, SQL, EC2, Lambda, API Gateway, Python, DynamoDB, AWS RDS, CloudWatch, CloudTrail, Java, Jira, As400, RPG, DB2

## **Certificates**

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AWS Solution Architect Associate

## **Education**

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Institute Of Engineering & Technology  
Computer Science and Engineering | 07/2011

## **Languages**

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English, Hindi