

# Astha Solanki

SOFTWARE ENGINEER · ACCENTURE

Bengaluru, Karnataka

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## Summary

Data Engineer with expertise in insurance, health, and banking domains. Skilled in building scalable data pipelines using Apache Spark and Databricks on Azure. Strong in integrating complex datasets, ensuring compliance, and optimizing performance for data-driven solutions.

## Work Experience

### Accenture

Bengaluru, Karnataka

SOFTWARE ENGINEER

Nov 2022 - Present

- Domain Expertise (Insurance, Health and Banking): Demonstrated a strong understanding of industry-specific challenges and requirements. Successfully integrated and processed 100+ complex datasets from diverse domains, ensuring 100% compliance and relevance across insurance, health, and banking sectors.
- Role (Data Engineer): Played a pivotal role in architecting and optimizing 30+ scalable data pipelines, advancing the data strategy for enterprise-level projects impacting 10+ business units. Effectively collaborated with cross-functional teams to align technical solutions with business objectives, enhancing data-driven decision-making and reducing time-to-insight by 35%.
- Data Pipeline Development: Developed, designed, and implemented robust data pipelines using Apache Spark and Databricks on Azure, enabling seamless data processing and transformation. Crafted high-performance workflows that efficiently processed data from multiple sources (structured, semi-structured, unstructured), delivering real-time and batch insights to target systems with 40% improved efficiency.
- Performance Monitoring and Issue Troubleshooting: Proactively monitored data pipeline performance metrics, ensuring optimal functionality and early identification of bottlenecks, reducing downtime by 25%. Developed and executed troubleshooting protocols to resolve data processing and performance issues, maintaining 99.9% system reliability and operational efficiency.

## Projects

### Online Shopping System

- Developed a scalable e-commerce web application using React.js and Redux.
- Implemented dynamic product browsing, cart management, and checkout workflows.
- Integrated secure user authentication, reducing unauthorized access and improving data security.
- Ensured responsive UI and smooth user experience across devices.

### Task Scheduling in Cloud Computing

- Compared multiple task scheduling algorithms to assess CPU usage and bandwidth utilization.
- Analyzed and visualized performance results using pie charts for clear insights.
- Identified the most efficient scheduling method to optimize resource allocation in cloud environments.

## Skills

Functional Tools & Methodologies:	Jira, Confluence, Git, GitHub, CI/CD, Agile, Scrum
Programming Languages:	Python, JavaScript, SQL
Big Data & Processing:	Spring, Spring Boot, React, Apps Framework
Cloud & DevOps:	Azure, AWS, Terraform, Redis
Web Technologies:	REST APIs, React.js, Node.js
Other Skills:	Problem Solving, Debugging

## Education

### B.E in Computer Science & Engineering

Bengaluru, Karnataka

SJB INSTITUTE OF TECHNOLOGY

2018-2022

## Awards & Achievements

2024	Earned Microsoft Azure AZ-900 and DP-900 certifications, demonstrating cloud competency, Cloud Fundamentals and Data Fundamentals	Microsoft
2018-22	Won medals in dance, Camlin art competitions, and academic Olympiads, Achieved recognition in national and international level contests	IMO, IEO