

Cecelia Shalini D'Souza

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Summary:

Results-oriented engineering leader with a focus on cloud technologies and expertise in understanding legacy systems on-premises. Proficient in both modern and legacy technologies, capable of bridging the gap between old and new systems. Currently pursuing a course in Prompt Engineering for ChatGPT and a digital officer course offered by the Indian School of Business (in progress), enhancing skills for technology-driven capabilities in the age of disruption.

Education:

- MS in Medical Software, MAHE, Manipal (Distinction, 2000)
- BE in Electronics and Communication, MIT, Manipal (First Class, 1997)
- Continuous learner at Coursera with formal training by Cloudera on Apache Spark and Data Analytics

Work Experience:

Lead Architect - Shell India Markets Pvt Ltd *Jan 2017 - Present*

Lead Architect / Design Lead - Data Platform for Subsurface and Wells – SDU/OSDU

- Developed a data platform enabling data democratization and innovation through data products.
- Successfully migrated business and LoB to the new platform, promoting openness and AI/ML-driven productivity.
- Technology Stack: AWS, Docker, Jenkins, GitHub Actions, Python, Apache Airflow, OPA Rego. In-country deployment on IBM Openshift
- Databases: Document DB, Elasticsearch, S3, Graph DB (Neo4j), RDBMS, and other managed services.

Development Manager / Proxy Product Owner - Well Master Manager (WMM)

- Managed development and acted as a proxy product owner for the WMM application, handling well and wellbore headers.
- Implemented standardized UI branding across SDU applications, enhancing user acceptance.
- Technology Stack: AWS, Docker, Jenkins, Java Springboot, AngularJS
- Databases: Document DB, Elasticsearch, Neo4j
- Legacy DB Interfaces: CDS, EDM

Development Manager / Proxy Product Owner - WMM CDS Migration Pipeline

- Designed and implemented Streamsets-based migration pipeline and sync pipeline for business continuity and data availability.
- Successfully mapped data from CDS to EDaM model, engaging architects and TDMs.
- Technology Stack: Streamsets, Java Springboot
- Databases: Document DB, Elasticsearch
- Legacy DB Interfaces: CDS, EDM

Technical Consultant (formerly Development Manager) - Shell Well End to End Tracker (SWEET)

- Led development and provided technical consultation for SWEET, a workflow tool for well data acquisition.
- Mentored the development team and facilitated technical discussions.
- Technology Stack: .NET Web Application
- Database: SQL Server
- Legacy DB Interfaces: CDS, Recall, LQC Websheet

Technical Lead - Blockchain for E&O in Data and Insights Sharing (BEODIS)

- Led the development of a blockchain-based solution using Ethereum for ensuring compliant data and insight sharing.
- Overcame knowledge gaps in blockchain technology and progressed the project as a proof of concept (PoC).
- Technology Stack: Ethereum Solidity SDK, React JS with Web3, AWS
- Database: Ganache Local Blockchain, Rinkeby Public Test Blockchain

SIEMENS *Jun 2008 - Dec 2017*

Technical Lead / Automation Test Lead / DICOM Standard Mentor - teamplay – Cloud Radiology Analytics

- Developed a cloud-based radiology analytics solution for monitoring and sharing data from radiology devices across healthcare institutions.
- Implemented DICOM healthcare standards and received recognition for successful implementation.
- Programming Languages: C#, Java
- Databases: SQLite, Azure SQL Database, Blob storage, Elasticsearch
- Deployed on: Azure, Any Browser
- Client OS: Windows 7 and higher

Other Work Experience: GE/Sarnoff/Perfint

- Gained experience in various projects involving client-server architecture, web-based, and desktop applications.
- Developed skills in multiple operating systems and cross-platform support.
- Roles: Software Engineer, Manual Tester, Build and Release Engineer
- Programming Languages: C, C++, Java
- Databases: GE Proprietary Database, Oracle
- Deployed on: On-prem hospitals
- Client OS: Unix flavors, Linux flavors, Windows 7 and higher

Know-How Profile:

- **Languages:** Solidity, Spring Boot, Spring Data, Boto3, Flask, Django, AngularJS, Java 9, Python, C#, C, C++.
- **AI Tooling:** AWS Sagemaker, ChatGpt assisted data mapping, mermaid.live.
- **Test Frameworks:** JUnit, MSTest, Moq, Fitnesse, Karate, Selenium.
- **Interpreter Languages:** Shell scripting, PL/SQL, R, Octave, Scala, Python.
- **Domain Standards:** Healthcare - DICOM, HL7, IHE Framework, Flask, DApps. Oil and Gas - OEC and Energetics, OSDU, LFEnergy.
- **Cloud and other Platforms:** Azure, AWS, GCP, IFB cloud Fabric, Smart contracts, Data Brokers, Denodo, Sagemaker, Databricks, Kafka.
- **Development Tools:** Eclipse, Visual Studio 2008, Optimizeit, jdb, gdb, SQL Developer,

RStudio, Jupyter Notebook.

- **Database/ETL:** SQLite, Oracle, Elasticsearch, Tinkerpop, Neo4j, Streamsets, Spark, Hive.
- **DevOps Tools:** Git, Rational ClearCase, Docker, Terraform, Jenkins, VSTS, Jira.
- **Design Tools and Methods:** UML, BizziDesign ArchiMate, SOLID, TOGAF, OOAD, AWS Architecture Principles.
- **Operating Systems:** IBM OpenShift, Linux, Solaris, SGI Irix, Windows 10 to Windows 98.