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Education

Master of Science, Artificial
Intelligence and Machine Learning,
Liverpool John Moore's University, GB,
2021

Post Graduate Diploma, Artificial
Intelligence and Machine Learning,
IIIT-Bangalore, India, 2020

Bachelor of Engineering, Computer
Science, Bhilai Institute of Technology,
IN, 2004

Certification Badges



Languages

English - Fluent

Hindi - Fluent

GAURAV AGARWAL

Data Architect

Profile

- Gaurav Agarwal has more than 15 years of experience in Architecting and managing analytical domain applications.
- Has more than 12 years of experience in client facing role (interacted with European, American, and Indian clients).
- Recognized as a Data Architect with expert ability to successfully implement end-to-end architecture and design for data warehousing, big data, AWS cloud, business intelligence projects.
- Worked as first point of contact for Client for his project at Onshore (Germany), managed his onshore/offshore team (India) remotely and worked collaboratively with other teams (Clients IT team, Clients Business team, Upstream/downstream teams, Infrastructure support teams, etc.) and designed and delivered solutions to Client's requirements with high quality and within planned timelines, even during pandemic.
- Additionally, worked as a solution architect for various RFPs related Data Engineering, AWS Cloud, AI/ML and Big data.
- Has more than 5 years of Onsite experience (Germany) in a client facing role as Data Architect in Data warehousing, Big Data, AWS Cloud and Machine learning areas.

Key skills

Technical Skills: Architected/Designed data intensive applications for advanced analytics, experience in designing solution and writing high quality high-level and low-level design documents, Data governance, Data Catalog, Master data management, experienced in leading and managing projects developed in AWS Cloud, Python, Pandas, SQL, PySpark, Java/JEE, Oracle PL/SQL, UNIX Shell scripting. Also, designed Data Warehousing solutions using Oracle Database, Cassandra, HDFS, Hive. Worked as a Solution Architect for various RFPs in the fields of AWS Cloud, Big data, AI/ML and for migrating existing Data systems to AWS cloud.

Soft Skills: Enterprise Strategic Skill-Agile, Enterprise Strategic Skill-Design, Enterprise Banking Expertise, Adaptability and flexibility, Business acumen, Creative thinking and innovation, Critical thinking and problem solving, Cultural intelligence, Decision making, Growth Minded, Learning agility, Leadership, Leadership For Managers, Mindfulness, Negotiation, Presentation Skills, Resilience, Teamwork and collaboration, Time management, Trusted advisor, Verbal communication, Written communication.

Awards

He has received following awards from IBM in his IBM project assignments:

1. Awarded with IBM Service Excellence Award for his "European Central Bank" project in 2021.
2. Awarded with IBM Service Excellence Award for his "Prudential Financials" project in 2015.
3. Awarded with IBM Technical Achievement Award for showing technical excellence in one of his projects "Chordiant" in 2011.

Certifications

1. AWS Certified Machine Learning Specialty
2. AWS certified cloud practitioner
3. Databricks Accredited Lakehouse Fundamental

Work experience

Data Architect

IBM India Pvt. Ltd., India | Jul 2007 - Present

Worked as Data Architect, Data specialist, Data Engineer, Business Analyst, ML Engineer on European Central Bank Project, Prudential Financial Project, worked as Technical leader on eSpear project for Deutsche bank, also worked as Project leader on Management information system project and worked as Technical leader, Senior Application Developer, Application database Administrator on Chordiant project for Vodafone India and have been awarded with IBM Service Excellence award (twice) and IBM Technical Achievement award.

Application Developer (Technical Associate)

Techmahindra Ltd., India | Apr 2005 - Jul 2007

Worked as a Database Developer for Telecom billing projects.

Assignment history

Data Architect

European Central Bank, Germany/India | Aug 2016 - Present

Project name: European Central Bank (Germany)

The ECB is an official EU institution at the heart of the Euro system and the Single Supervisory Mechanism. Over 2,500 staff from all over Europe work for the ECB in Frankfurt am Main, Germany. They perform a range of tasks in close cooperation with the national central banks within the Euro system and, for banking supervision, with the national supervisors within the Single Supervisory Mechanism.

Contribution: worked as a Data Architect and acted as a first point of contact for Client for his project at Onshore (Germany). Designing data warehouse on Oracle Exadata, designing data lake on Oracle Big data appliance, designing ETL pipelines among Transactional, Analytical and Big data systems, Additionally, worked as a solution architect for various RFPs in the fields of AWS Cloud, Big data, AI/ML and for migrating existing Data systems to AWS cloud. Worked on End-to-End implementation of Advanced analytics (AI/ML) projects using CRISP-DM. Managed his India offshore team remotely and worked collaboratively with other teams (Clients IT team, Clients Business team, Upstream/downstream teams, Infrastructure support teams, etc.) and delivered project work with high quality and within planned timelines, even during recent pandemic. Provided leadership and hired and trained staff to ensure successful project delivery. Provided insight point-of-view and go-to-market strategies on emerging technology in data and cloud space. Conduct assessments to determine the best cloud solution for implementing a cost effective, scalable, and repeatable data and analytics solution on AWS cloud. Outline end-to-end strategy and roadmap for data platforms as well as modernize data and infrastructure. Assessed current state of data

management, identified gaps, provided recommendations, and developed roadmap to address gaps for adopting data analytics and virtualization. Introduced and defined a data catalog approach that included different reporting data elements.

Data Specialist

Prudential Financials, India | Nov 2013 - Jul 2016

Project name: Prudential GI

Prudential Financial is a Fortune Global 500 and Fortune 500 company whose subsidiaries provide insurance, investment management, and other financial products and services to both retail and institutional customers throughout the United States and in over 30 other countries. Principal products and services provided include life insurance, annuities, mutual funds, pension- and retirement-related investments, administration and asset management, securities brokerage services, and commercial and residential real estate in many states of the U.S.

Contribution: Worked as Data Specialist for this Project, design and development of database and ETL pipelines for data applications, led teams to resolve technical issues on day-to-day basis raised by client teams, worked on issues and resolved them. Also, automated various repetitive tasks.

Data Engineer

Enbridge, Canada | Sep 2012 - Oct 2013

Project name: DAS (Data access services)

To learn oracle application development framework as new skill set and develop data services as per project requirement. Also, to work as database expert for supporting database related changes.

Contribution: Designed and developed more than hundreds of data services on oracle application development framework, worked as a database expert and provided support to project teams.

Data Specialist

Deutsche Bank, India | Apr 2012 - Sep 2012

Project name: eSpear

eSpear - is an integrated, event-driven, exception-based platform for processing securities transactions for the Corporate and Investment Banking (CIB) businesses.

Contribution: Responsibilities include technical leadership, designing data model and developing solution for application database, performance improvement, client interaction for understanding their requirements/concerns and providing technical solution for them.

BI Reporting Lead

Vodafone India, India | Apr 2010 - Mar 2012

Project name: MIS (Management Information services)

MIS is an online reporting system which provides more than 450 distinct reports on various modules of billing system. These reports help business to understand the customer behaviour, to get information about account receivables, any product and services, collections, etc. and to run an audit on segment of billing system attributes.

Contribution: Responsibilities include Project leadership, client interaction for gathering/understanding their requirements/concerns and designing solutions for them, development/enhancement of BI reports on current BSCS billing data warehouse system, reviewing of design/work done by vendor – Amdocs for new MIS application on upcoming Amdocs post-paid billing system, coordination, and delivery of new MIS application on upcoming UPSS prepaid billing system.

Data engineer

Vodafone India, India | Apr 2008 - Mar 2010

Project name: Chordiant

Chordiant is marketing product which is used by several companies for taking their marketing decisions. This product suggests the most appropriate services/offers for a customer based on his usage history.

Contribution: Responsibilities include Technical Team leadership, client interaction for gathering/understanding their requirements/concerns and designing data warehousing solution for them, designing data model for the data warehouse, developing ETL process using Unix shell scripting and oracle pl/sql which includes creation of the database objects, processing of customer data on timely basis.

Data Engineer

Vodafone India, India | Jan 2008 - Mar 2008

Project name: CSNOC (Customer Services – National Operational Centers)

CS NOC is basically a website which tells about performance of different circles and employees of Vodafone with the help of Key Performance Indicators (KPIs) defined by the business.

Contribution: Responsibilities include designing/development of database, building data model which includes modelling and creation of a new database, loading of input data from different source for calculation of KPIs, and calculation of KPIs.

Application developer

Vodafone Czech republic, India | Jul 2007 - Dec 2007

Project name: Arbor/Kenen

Arbor is a billing platform used by Vodafone czech Republic for providing telecom services to their customers.

Contribution: Responsibilities include learning and testing configuration of various telecom services and products provided by vodafone.

British Telecom, UK, India | Jul 2006 - Jul 2007

Project name: NCDB (National Charging DataBase)

NCDB is part of BT's Retail Billing Program, basically a database which holds charging & pricing information which is further used by BT's Retail pricing Engine – Service Domain Processor and several downstream interfaces.

Contribution: Responsibilities include development and support for database maintenance and enhancement, for supplying charging and pricing information to different interface, for real-time pricing of CDRs.

British Telecom, UK, India | Aug 2005 - Jun 2006

Project name: CISA (Charging Information Supply & Audit)

CISA is a part of BT's Retail Billing Program owing following responsibilities:

- It verifies and audits the correctness of the pricing information supplied by NCDB to Service Domain Processor (SDP – BT's Real-Time Pricing Engine) by using its own pricing engine.
- It supplies charging and pricing information from sensitive National Charging Database (NCDB) to more than 40 interfaces in various formats like CSV, BIN, ASCII etc.
- It does recoveries for over-charged customers on request.

Responsibilities include development and support for supplying data to down-stream interfaces, enhancement of pricing engine.

Contribution: Responsibilities include development and support for supplying data to down-stream interfaces, enhancement of pricing engine.