

VIBHOR AGARWAL

Bengaluru, India

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CLOUD & AI ARCHITECT

Versatile solutions architect with 23+ years of comprehensive IT leadership experience.

Accomplished Architect with extensive hands-on experience in Cloud, AI/GenAI, and DevSecOps. Renowned for designing and implementing innovative IT products & solutions in partnership with internal and external stakeholders. A specialist in digital transformation, application modernization, and business process automation, holding over twenty certifications across a full stack of technologies. Consistently recognized as a go-to expert for crafting complex proposals and navigating adverse situations. Collaborates closely with agile delivery teams to foster positive & personal relationships and excels in building strategic customer partnerships globally.

CORE COMPETENCIES

- Cloud & AI/Gen AI Solution Architecture
 - Digital Transformation, DevSecOps
 - Product Design & Development
 - Executive Leadership and Oversight
 - Cloud Management Solutions
 - Business Development/Pre-Sales
 - Enterprise Software Development
 - Data Management & Analytics
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TECHNICAL PROFICIENCIES

Core languages/frameworks:	Python, Java, Ruby on Rails, PL/SQL, Microservices
Front End:	React, Angular, jQuery, Ext JS, Oracle OAF, JSP, JPF
Cloud:	AWS, Oracle Cloud Infrastructure, Google Cloud, Azure, Cloud Foundry
AI/GenAI & ML:	Big Data processing, RAG, Azure AI /OpenAI, Machine Learning/ Models (with AWS Sagemaker), Microsoft Teams Bot, Graph DB
Middleware:	Redis, Rabbit MQ, IBM MQ, Tibco, WebSphere CI
IaC:	Serverless, AWS CDK, Terraform, Azure Bicep
QA:	Pytest, Locust, JMeter, Selenium, BDD, Ranorex, Rest Assured
DevSecOps:	Jenkins, Azure DevOps, Veracode, Coverity, Black Duck, AppDynamics, SonarQube, Kubernetes, Docker, GitHub Actions
CMS:	Jahia, Tridion, Liferay, WordPress
Data, BI:	Oracle, PostgreSQL, MySQL, NoSQL, Grafana, Hadoop, BigQuery
Exposure to:	ELK, Kafka, Service Mesh, TensorFlow, PyTorch, Azure Data Factory, Bricks, PySpark, Snowflake, IoT

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PROFESSIONAL EXPERIENCE

- Cloud & AI Architect**, CGI INC. (CLIENT: BEARING MANUFACTURER) OCT 2023 - PRESENT
- Designed & implemented an Azure AI based solution with potential annual savings of over 60,000 hours of effort (close to \$4M savings).
 - Architecting & supporting solutions leverage GenAI and custom model deployments aiming to boost product sales by 40% over the next two years.
 - Developed a solution that offers alternate products optimized by emissions on AWS Data Lake, contributing to the client's net-zero emissions mission.
 - Contributed to AI COE by democratizing best practices, establishing secure standards, and creating deployment architectures for AI/ML implementations.
 - Implemented a highly secure Azure infrastructure for deploying AI workloads that process confidential data, in collaboration with IT security and ISMS standards.
 - Leveraged machine learning platforms, such as AWS Sagemaker to deliver scalable & efficient AI systems.
 - Led cross-functional teams to develop advanced AI solutions, integrating business processes and significantly improving user experiences.
- Cloud & DevOps Architect**, CGI INC. (CLIENT: BEARING MANUFACTURER) JUL 2020 - OCT 2023
- Provided technical leadership to IT teams, architecting & implementing reusable solutions in *Digitalization as a toolbox* journey, utilizing AWS & Azure
 - Developed a strategic roadmap for migrating to a hybrid cloud environment (on-premises, AWS, Azure), enabling annual savings of €35,000 per month for a suite of internal applications.
 - Enabled desktop tools for containerized deployment on AWS ECS clusters within an optimized custom scaling environment, achieving computational speed ups by up to 10X-12X through parallel processing.
 - Led the implementation of DevSecOps practice in engineering tools using Azure DevOps & microservices on AWS, leveraging over 40 distinct services, supporting 65+ team members, 5000+ users and 20+ UI apps across 15+ accounts, all while maintaining production costs under \$1000 per month.
- Consultant & Solution Architect**, CGI INC. (MULTIPLE CLIENTS) MAR 2020 - AUG 2020
- Conducted technical delivery reviews for a Dutch lighting company, for Adobe AEM applications.
 - Enhanced the existing BI & reporting set up by building a centralized data repository, supporting over four hundred reports, for an industrial automation company.
 - Established a multi-tier application infrastructure for a US-based elevator manufacturer, integrating Akamai, F5, and SSL certificate-based mutual authentication to enhance security and performance.
- Cloud & Solution Architect**, CGI INC. (CLIENT: SEMICONDUCTOR MANUFACTURER) DEC 2016 - MAR 2020
- Built a product that digitalizes NFC payment cards integrating with MDES and VTS (J2EE, AWS & Angular)
 - Architected & implemented an OpenID based AuthN & AuthR product based on user's digital identity.
 - Led the cloud productization of flagship solutions, including 'Product Authentication' & 'AppXplorer.'
 - Designed & prototyped an application platform to facilitate onboarding of end users IoT systems.
 - Established a high performing team of 50+ members under a multi-year fixed-price contract.
- Solution Architect**, CGI INC. (MULTIPLE CLIENTS) OCT 2012 - DEC 2016
- End to end automation & optimization of Content & Services platform for a navigation systems & map provider, significantly reducing map content delivery cycle from three months to just one month.
 - For a French facilities management provider, led the migration of the content management system from Tridion to Jahia, along with feature-rich enhancements to the content portal. This initiative significantly enriched the user experience, simplified, and centralized content administration, and contributed to improved sales while reducing content management efforts by approximately 50%.
 - Contributed to the development of Quality of Life (QOL) mobile app leveraging existing APIs.
 - Designed Azure architecture for migration of a couple of word press sites from AWS.
 - Implemented Oracle EBS customization (OAF, PL/SQL) for BOM, Supplier MDM/Registration workflows, for a

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US based gas detection product/PPE manufacturer.

- Led a 5-member team in development of RESTful services for CGI's IP *Unify360*, an integrated suite of tools for managing both traditional & cloud-based IT services, assisting in speeding up cloud adoption.
- Application portfolio rationalization & modernization (Java, MQ, Oracle) of a suite of applications for a custom brokerage services provider, saving annual operational costs by \$50, 000. Subsequently, developed a comprehensive digital transformation strategy roadmap for Cloud migration including initial prototypes.

Solution Architect, CGI INC. (CLIENT: GERMAN BANK)

JUN 2005 - SEP 2012

- Responsible for the development, enhancement & maintenance of a critical WebLogic portal (SOA, J2EE, Oracle) based application that provides hedge funds services to institutional investors.
- Owned complex modules such as - integration of data warehousing reports into an Ajax based UI, high performing user entitlements engine, platform upgrades.
- Provided ongoing support to globally distributed business users and stakeholders.
- Played a pivotal role in transforming the engagement into a multimillion-dollar deal.

Technology Lead, CGI INC.

AUG 2003 - JUN 2005

- Led the modernization of an existing virtual web store with WebLogic Commerce APIs & Page flows, for a major Canadian telecom player.
- Migration of a retail teller application from C++ to Java for a Canadian multi-national bank, which included streamlining four workflows by introducing local journaling & querying capabilities.

Sr. Software Engineer, AUTOMATED WORKFLOW PVT LTD. (IP, TEMASEK P)

JUL 2002 - JUL 2003

- Implemented *Dotsphere*, a document capturing product with VB, PostgreSQL & IBM Content Manager.
- Led key modules for a Java EE based solution on IBM product stack, developed for a Singapore University.

Trainee Software Engineer, TATA INFOTECH LTD. (CLIENT: PARAMIS, FRANCE)

MAR 2001 - MAR 2002

- Back-end developer for two key modules, for a Java EE based ERP 'like' solution with BPM features.

CERTIFICATIONS

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| • AWS Certified AI Practitioner | • AWS Partner: Accreditations |
| • AWS Certified Solutions Architect – Associate | • Neo4J Certified Professional |
| • Microsoft Certified Azure AI Fundamentals | • Microsoft Certified Azure Fundamentals |
| • Microsoft Certified Azure Data Fundamentals | • HashiCorp Certified: Terraform Associate |
| • Google Cloud Skills | • Google Cloud Certified Cloud Digital Leader |
| • Oracle Cloud Infrastructure 2024 Generative AI Certified Professional | • Oracle Cloud Infrastructure 2023 AI Certified Foundations Associate |
| • Oracle Cloud Infrastructure 2023 Certified Multi Cloud Architect Associate | • Oracle Cloud Infrastructure 2021 Certified Architect Associate |
| • Oracle Cloud Infrastructure 2024 Certified Foundations Associate | • Aviatrix Certified Multi-Cloud Networking Associate |
| • AI for Organizational Leaders by Microsoft and LinkedIn | • Career Essentials in Generative AI by Microsoft and LinkedIn |
| • Career Essentials in GitHub Professional Certificate | • Build Your Generative AI Productivity Skills with Microsoft and LinkedIn |
| • Certified SAlFe® 5 Practitioner | • Certified SAlFe 5 Agilist |
| • Oracle Cloud Data Management 2023 Foundations Assoc | • Python for Data Science |

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PUBLICATIONS & TRAININGS

- Blogs/Papers:
 - <https://techvibhor.link>
 - https://dev.to/vibhor_agarwal
 - <https://stackoverflow.com/collectives/aws/articles>
- Tech Community
 - <https://stackoverflow.com/users/7746398/techfree>
 - <https://github.com/vibhoragarwal>
- Trainings – Kubernetes Administrator (CKAD), GCP, WebLogic, MongoDB, Intershop, Talend, Liferay, Jahia, Angular, Agile, SAFe, Data Science, Design Thinking
- Software development training at Tata Infotech Ltd (Sep 2000 to Feb 2001)
- Industry Experience – Manufacturing, Banking, Telecom, Retail & Consumer Services, Product Development, Digital Payment

EDUCATION

MBA, BE, CBSE