

Yash Bhutoria

Enterprise Cloud Architect

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Professional Summary

With over 5 years of experience as a Principal Consultant at Celebal Technologies, I specialize the Azure Cloud Platform, Azure PaaS, Data Engineering, and Serverless technologies. I specialize in developing scalable, robust enterprise-grade integration solutions across various sectors, including energy, sustainability, healthcare, and education. My expertise extends to leading cloud migration, optimizing cloud infrastructure for enhanced performance and security, and championing digital transformation efforts. Known for strong problem-solving, automation, and DevOps skills, I deliver cost-efficient, scalable cloud solutions that effectively bridge IT and business objectives.

Work experience

Celebal Technologies Americas, Inc.

Principal Consultant, Enterprise Integration

May 2023 - Present

Dallas, TX

- Architecting and developing enterprise integration solutions on hyperscaler clouds
- Creating standards and research for Application Modernization
- Managing delivery for high value clients
- Growing and mentoring a team of 40+ associates
- Technical research, strategic planning and advisory

Gies College of Business - University of Illinois Urbana-Champaign

Graduate Research Assistant

Oct 2022 - May 2023

Champaign, IL

- Evaluated public datasets for Filecoin/IPFS storage suitability
- Demonstrated decentralized computing use case over data
- Created cost-benefit analytical model for decentralized storage
- Provided insights on decentralized storage adoption for universities

Celebal Technologies Pvt. Ltd.

Member of Technical Staff, Enterprise Integration

May 2019 - July 2022

Jaipur, India

- Designing and developing data integration solutions on hyperscalers like Azure and GCP
- Managing delivery for high value clients
- Growing and mentoring a team of 30+ associates
- Technical research, strategic planning and advisory

Education

Master of Science in Business Analytics

Gies College of Business, Champaign, IL

Graduated with Beta Gamma Sigma (BGS) honor

University of Illinois Urbana-Champaign

2022 - 2023

Bachelor of Technology in Computer Science

Poornima College of Engineering, Jaipur, India

Rajasthan Technical University

2015 - 2019

Technical skills

Project Domains	Application Modernization, Enterprise Integration, Data Engineering, Infrastructure as Code, API Design
Integration Services	Azure Functions, Azure Logic Apps, Azure Service Bus, Azure Event Grid, Azure API Management, Azure App Services, Azure Storage Services
Integration Platforms	Databricks, Azure Data Factory, Dell Boomi, Google Data Fusion, Apache Airflow
DevOps Tools	Azure DevOps, Jira, Docker, Git
Frameworks and Libraries	FastAPI, PySpark, Selenium, Matplotlib, Pandas, Numpy
Languages	Python, Go, Shell, Terraform, DAX, R, SQL

Projects

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- **Integration Modernization (for a Snacks Manufacturer at Hanover,PA) (09/2023 - Present):**
 - Role: Onsite Architect, leading a team of 15
 - Description: Initially grappling with challenges in harmonizing integration patterns due to an early adoption of hybrid cloud strategies, our intervention paved the way for a streamlined, standardized approach. We executed the development of comprehensive standards and design documentation, focusing on Azure Services, Azure DevOps workflows, development protocols, security, as well as logging and alerting frameworks. We crafted libraries and frameworks to ensure adherence to these standards. This initiative modernized over 20 integrations, markedly enhancing their performance, stability, maintainability, development velocity, and testing cycles.
 - Achievements: Successfully deployed Supply and Demand Planning data pipelines, establishing a reusable, well-defined batch data integration framework, marking a significant milestone in the project's progress.
 - **Modernizing Financial Data Life-cycle (for University of Illinois Urbana-Champaign) (10/2023 - 04/2024):**
 - Role: Lead Developer, lead a team of 6
 - Description: The project aimed at addressing inefficiencies in the University of Illinois' billing process by modernizing the CFOP (data management through cloud integration. Leveraging AWS services (Lambda, DynamoDB, CloudWatch), we developed an automated solution to streamline CFOP updates and queries, eliminating manual interventions and significantly reducing operational delays. The solution included developing interactive forms for business users, consolidating APIs, and ensuring data security and integrity. This project was executed as part of the Business Practicum during the MSBA degree.
 - Achievements: Successfully implemented solution, resulting in operational efficiency and enhanced data accuracy. The project was recognized for its innovative approach and selected for presentation at the UIUC Spring 2023 IT Pro Forum, highlighting the potential for process excellence through technology.
 - **IPaaS on Azure (for a Hospitality Company at San Diego) (10/2020 - 07/2022):**
 - Role: Lead Offshore Developer, lead a team of 8
 - Description: The customer wanted to eliminate point to point custom data integration solution with a unified and extendable platform. Designed and developed an integration platform on Azure. The project included C# based server-less functions, API Gateway, Cloud-based automated workflows and Infrastructure as Code all deployed and configured with CI/CD Pipelines for automation and agility.
 - Achievements: Finished phase one of the project by going live as part of a company wide technology makeover effort.
 - **Data Landscape Modernization (for an Illinois-based Motorparts Manufacturer) (04/2021 - Present):**
 - Role: Architect and Lead Developer, lead a team of 6

- Description: Modernized the customer's data ingestion landscape by implementing batched data pipelines using Azure Data Factory and eliminating the need for any 3rd party middle-ware saving thousands of dollars in licensing costs. Established mechanisms to consolidate and move data from multiple SAP S/4 instances into Salesforce as aggregates to enable sales order reporting.
- **Data Landscape Modernization (for a Medical Imaging Device Manufacturer in Manhattan)** (10/2020 - Present):
 - Role: Architect and Lead Developer, lead a team of 6
 - Description: Modernized the customer's data landscape by moving from legacy on-premise database to a managed cloud database on Microsoft Azure, bringing down operational and management cost by ~40%. Established batch and real-time data ingestion pipelines from SAP C4C to Azure SQL Database with monitoring using in a Server-less fashion, well-defined procedures for deployment and release using Azure DevOps to ensure collaboration and quality control.
- **Data Integration on Dell Boomi (for a Global Sports Brand)** (05/2020 - 08/2020):
 - Role: Lead Offshore Developer, lead a team of 4
 - Description: Managed overall offshore delivery, and produced planning and design documents. Developed integrations connecting 10+ systems to run on daily batches and real-time frequencies using Dell Boomi Integration platform as a middle-ware.
- **Learning and Development Reporting (for an Indian Telecom Company)** (04/2019 - 04/2020):
 - Role: Lead Developer, lead a team of 2
 - Description: The project delivered a Power BI dashboard showing learning and development progress and metrics on the entire company. This solution is built to automatically pull the data from the company's various learning platforms, transformed and stored into Azure SQL Database. The data pipelines were built upon API and Selenium-based scheduled jobs.

Academic Research

- **Decentralized storage with Filecoin:** This research aims to provide public universities with a better understanding of the role of decentralized storage protocols in their IT infrastructure, specifically Filecoin/IPFS. The team plans to evaluate which public data sets are suitable for storage using Filecoin, demonstrate a use case of decentralized computing over the data, and create an analytical model that shows the cost-benefit trade offs of using decentralized storage. The output of this research provides universities with valuable insights into the potential benefits and risks of adopting decentralized storage solutions, allowing them to make more informed decisions about their IT infrastructure.
- **Creating LLM-based Dynamic Analytics on CRM and ERP Systems:** This research aims to develop a system that can create dynamic queries and visualizations based on user input and apply natural language processing (NLP) to Customer Relationship Management (CRM) and Enterprise Resource Planning (ERP) systems. The project will involve analyzing large amounts of data from various sources using LLaMA (Large Language Model Meta AI) model and fine-tuning LLMs to specialized queries. The generated queries will be used to create dynamic visualizations, providing users with real-time insights into their CRM and ERP systems. The project used National Center for Super computing Applications Delta supercomputer at UIUC for compute.

Certifications

Databricks Lakehouse Fundamentals, Azure Developer Associate, Datacamp Supervised Learning, Exploring and Producing Data for Business Decision Making, Inferential and Predictive Statistics for Business, Azure Data Fundamentals, Azure Fundamentals

Other Achievements and Activities

- **Academic Excellence Award**, Issued by Gies College of Business - May 2023
Associated with University of Illinois Urbana-Champaign. This award signifies recognition as a distinguished student for outstanding academic achievements.
- **Lifetime Member**, Issued by Beta Gamma Sigma - Apr 2023 Associated with University of Illinois Urbana-Champaign. CH-34C-3046335. This distinction marks a lifetime membership in Beta Gamma Sigma, the international business honor society that recognizes the top 20 of graduate students in business schools accredited by The Association to Advance Collegiate Schools of Business (AACSB) worldwide.
- **Member of Jury, Manipal National Hackathon (DoIT)**: Mentored and evaluated innovative projects presented by tech students from all over the India in the 24Hr hackathon organised by Department of IT Rajasthan Gov and Manipal University
- **Mentor and Judge, JECRC Hackathon 4.0 (2020)**: Mentored and evaluated innovative projects presented by tech students from all over the India in the 24Hr hackathon organised by JECRC College, Jaipur
- **Expert Lectures at Various Universities**: Delivered multiple expert lectures on Cloud Services, Serverless computation and Modern API Design at University of Illinois Urbana-Champaign, MNIT Jaipur and Manipal University