

# Our Microsoft Azure Partnership

**Delivering secure, future-ready, cloud solutions for today's businesses.**

Many business drivers, especially the need to deploy innovative solutions easily and quickly, are compelling businesses to adopt scalable, inter-operatable, secure and agile cloud technologies. Microsoft Azure Cloud is among the most sought-after cloud computing platforms, largely because it integrates seamlessly with Microsoft products and services within an organization's enterprise environment. Furthermore, Microsoft Azure leverages and runs solutions developed using the open source tools, and it provides numerous services and features to meet the ever-changing business requirements.

## Our Microsoft Azure Offerings

Blue Altair, an ECIF enabled partner, provides a range of end-to-end services across the cloud portfolio that help design, build, and operate their Microsoft Azure services during their digital transformation journey.

### Cloud Consulting and Strategy

We assess our clients' readiness for cloud transformation and define their cloud vision, expected outcomes, and roadmap while minimizing risks and costs.

### Application Modernization

We help modernize legacy applications by building high performance, scalable and feature-packed applications using cloud-native technologies such as serverless platforms, containers, DevOps and others to meet growing customer demands.

### AI Analytics

We build next-gen applications using various data science technologies and techniques such as Generative AI, ML, deep learning, computer vision, and others.

### Cloud Migration

We assess our clients' current state of infrastructure, understand the cost and benefits of migrating to the cloud, and lift and shift on-premise applications and data to Azure Cloud.

### Data Platform Modernization

We modernize data architecture key components like data lakes, data warehouses, data governance etc. using scalable and highly available Azure services without disrupting business operations during legacy to cloud migration.

### Cloud Security

We implement robust security for cloud infrastructure and applications to avoid any threats and vulnerabilities.

# A Closer Look At Our Offerings

Our Microsoft Azure-certified experts are highly experienced in building complex and scalable business solutions. Blue Altair provides six key Microsoft Azure offerings:

## Cloud Consulting and Strategy



### Catalog of Services

- Assess on-premise infrastructure and workload for cloud readiness
- Define:
  - Overall strategy and roadmap for Azure Cloud platform
  - Cloud security strategy to protect data and applications migrated to Azure Cloud
  - Governance and risk mitigation approach
  - Approach for sustainable infrastructure and cloud strategy optimization as well as the strategy for resilience, sustainability, backup and disaster recovery with Azure services

### Technology Expertise

- Design and implementation of cloud architecture using Azure Cloud computing services
- Adherence to cloud security best practices
- Data and application migration to Azure
- Cloud cost optimization services and business needs analysis to identify opportunities for cloud adoption and optimization
- Cloud DevOps practices for automated build, deploy test and infrastructure provisioning
- Azure project management and governance methodologies

## Cloud Migration



### Catalog of Services

- Assess on-premise application and data to determine best fit for Azure cloud migration and modernization
- Plan and design the migration process for moving application and data to Azure Cloud and Microsoft Fabric
- Cross-cloud integration of application and data

### Technology Expertise

- Azure Cloud infrastructure, compute and integration services viz: logic apps, service bus, container instances, Kubernetes Service, Azure functions
- Data Storage Services viz: Cosmos DB, Blob Storage & Azure SQL-managed instance, Azure-managed third party databases, Azure SQL
- DevOps and automation service viz: Azure DevOps, Azure Monitoring, Azure Pipelines, EventHub
- Analytics service viz: Microsoft Fabric solution suite including Power BI, Azure Synapse Analytics, Azure Databricks

## Application Modernization



### Catalog of Services

- Assess legacy applications for modernization
- Refactor and rearchitect applications using an API-First and cloud-native approach.
- Enable monolith to microservice decomposition and cloud-native application development
- Manage and securely expose APIs
- Provide next-gen quality assurance for improved resiliency, scalability and security
- Enable performance monitoring as well as security and incident management

### Technology Expertise

- Azure Cloud infrastructure, compute, storage and integration services
- Database services viz: Azure SQL, Azure Synapse, Azure Cosmos DB
- Azure API management
- Cloud networking, monitoring and security services viz: Azure Key Vault, VPN Gateway, Application Gateway, Virtual Network, Load Balancing, EventHub
- Master Data Management: Profisee
- Data Governance: Purview

## Data Platform Modernization



### Catalog of Services

- Cloud data lake setup for structured and unstructured data storage
- Data warehouse
- Modernization and setup on cloud
- Seamless and secured data migration to cloud
- Data asset management using data governance tools
- BI modernization

### Technology Expertise

- Microsoft Fabric
- Data lake using ADLS, cloud databases using Azure SQL Database, Azure-managed third-party databases, Azure Cosmos DB
- Big data mining, exploration and analysis using Azure Synapse Analytics and Power BI embedded
- Data governance using Purview
- Master Data Management: Profisee

## AI Analytics



### Catalog of Services

- Generate insights from big and streaming data
- Develop supervised, unsupervised and semi-supervised machine learning models
- Process text using pretrained natural language models
- Fast track building of deep learning models with explainable results
- Develop computer vision applications

### Technology Expertise

- Azure HDInsight, Azure Databricks, Azure Stream Analytics, Azure Data Warehouse, Azure Synapse Analytics
- Azure Machine Learning, Azure Auto ML, Azure Cognitive Search, Azure Bot Services
- Purpose-built Data Science Virtual Machines (DSVM Service)
- Azure Form Recognizer, Custom Vision, Azure Video Indexer, Azure Cognitive Services for Vision
- Azure Open AI, SynapseML

## Cloud Security



### Catalog of Services

- Assess security vulnerability, gaps and perform compliance review to highlight the risks
- Configure and monitor network, application and storage security

### Technology Expertise

- Azure Active Directory, Secrets Management using Key Vault and Multi Factor Authentication Services
- Enforce compliance using Azure Policy and Azure RBAC
- Security Monitoring services viz: Azure Network Watcher, Azure Monitor service

# Addressing Industry Problems with Azure Services

Blue Altair has several years of experience delivering services to clients on Azure's platform.

## Automotive

### Client Challenges

- Time consuming data processing causing untimely and inaccurate operational reporting
- Legacy software reaching end of life
- Siloed and delayed data access

### Our Solution

Designed and implemented a roadmap to migrate a legacy data warehouse on SQL Server to an Azure-based modern cloud platform using Azure Synapse, Azure Data Factory, ADLS, PowerBI and Purview. This resulted in:

- Improved speed of decision making with desired data quality
- Reduced cost, improved operational efficiency and overall performance
- Customized data pipelines monitoring dashboards for proactive measures
- Data democratization, allowing more data constituents to access the data
- Deployment of global enterprise reporting solution and advanced analytics by migrating more than 1.5K reports from legacy (SSRS) application to Power BI and Azure Analytics services

## Pharmaceutical

### Client Challenges

- Lacked the ability to process big data (~40TB) in a timely and efficient manner to ensure dataset availability for market analysis
- Needed complex rule-based product recommendations

### Our Solution

Leveraged Azure services like ADF for data preparation and orchestration and Azure Databricks to run ML analysis. It provided solutions to niche business needs like:

- Faster data processing and analysis on large datasets in shorter timeframe for marketing material analysis
- Recommendation engine considering multiple data points

## Higher Education

### Client Challenges

- Required consolidation of various complex applications and work towards digital rationalization of varied assets

### Our Solution

- Conducted assessment and proposed a migration road map for diversified applications and data to Azure Cloud
- Developed data processing solutions to help business teams access reliable and trustworthy data across the organization

## Asset Management

### Client Challenges

- Disparate data for Customer, Distributor and Products data
- Significant processing time to refresh data, resulting in higher operational costs.
- Data latency in sharing the trusted data to Analytics Applications and CRM

### Our Solution

- Azure and Databricks based Delta Lakehouse Medallion Architecture with Data Governance layer leveraging Databricks Unity Catalog
- Progressively refined data with functional Customer, Distributor Datamart using PySpark and SPARK SQL based data transformations and orchestrations
- Tailor-sized SQL warehouses for downstream applications as per the need to optimize the operating costs

## The Blue Altair Promise

At Blue Altair, we understand that cloud infrastructure and services are critical in helping businesses define a winning strategy. Our mission is to drive innovative solutions to keep business strategies ahead of the curve by adopting transformative technologies, streamlining technical capabilities and maximizing ROI. Regardless of project size, we pride ourselves on delivering the best value for your investment. Blue Altair's biggest strength is our combination of integrity with excellence, and that's our commitment to you: results that exceed your expectations and earn your trust for future business needs.



## About Blue Altair

Blue Altair is a niche, industry-recognized business and technology consulting firm that assists our clients with digital transformations. We offer Assessment and Strategy, Technology Implementation, and Managed Services in API Management and Integration; Data Management; Digital Application Development; and Data Science and AI. Our Client Success capability ensures a higher-than-industry rate of successfully delivered projects, with a primary focus on program and project management, business analysis, and quality assurance. Blue Labs is our innovation hub, where we use cutting-edge technology to build offerings that deliver accelerators and solutions. Our culture is the heart of our existence, and our core values are the key drivers for our handpicked, top-tier performers.

[info@bluealtair.com](mailto:info@bluealtair.com) | [www.bluealtair.com](http://www.bluealtair.com)

1530 Wilson Blvd., Suite 650  
Arlington, Virginia 22209 USA  
+1 703 721 7275



United States | India | Australia | Argentina