

CORPORATE OVERVIEW

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Citi – Current State

- American multinational investment bank and financial services corporation headquartered in New York.
- The Enterprise Chief Data Office (ECDO) drives and enforces data quality across Citi and addresses the challenges related to the end-to-end data architecture for risk, financial, regulatory, and management information.
- ECDO is driven to improve Citi's risk management practices, including compliance risk management, data quality management and internal controls
- Multi-year remediation projects in progress
- You have already embarked on a digital journey as follows:
 - O You have implemented a secure cloud environment offering auto-scale capabilities
 - O You use Machine Learning for fraud detection
 - O You use predictive analytics for compliance



Goals

- 1. Safety & Soundness
- 2. Operational Efficiency
- 3. Client Growth Support

Potential Work Streams?

Continuous improvement in:

- O Risk and Controls proactive and preventative
- O Data Linkage improved linkages across data sets
- O Compliance anticipate and better enforce
- O Infrastructure more automation

NALLAS

Notice is a fixer of the series company creating value for evaluation of the cough of the euse of technology, purposeful provide data, cloud, product, and quality engineering services for enterprises that need to transform with the bill of the couple priority, is the couple priority,

What makes us tick?

- We are driven by, and invested in, your business outcomes:
 Your measure of success is our measure. We are so singleminded about this that if we don't believe the outcomes are
 achievable, we won't pursue the business
- We deliver with stable, empowered, and accountable teams: From our most junior developer to our most senior executive, you can ask "What is the purpose of this project, what is the desired business outcome?" and they will tell you. And unlike other providers, you won't suffer from team churn the team you start with is the one that will be with you at the end.
- We provide unparalleled transparency and predictability:
 Complex engineering projects always come with risks and unknowns, and so having a reliable forecast for success is key.
 We offer a unified delivery platform called ValueScope, the glass wall between you and the Nallas delivery team. You will have complete visibility on progress against the desired outcomes, key risks, mitigation plans and quality trends with our real-time transparent scoreboards.

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OUR GUIDING PRINCIPLES

These principles are the north star for Nallas. They embody how we function, define our work ethic and culture, and enable us to consistently deliver exceptional value to all our partners.

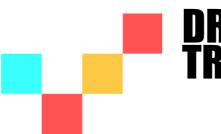


PROGRESS OVER PERFECTION

Are we taking strides to learn everyday, and in every way? Excellent. Are we innovating on the go? Fantastic. Are we delivering perfect output? We hope so, but that's subjective and always secondary. As long as we keep evolving as professionals and as a company, pivoting when needed, always staying relevant and ahead of the curve, we'll sacrifice a bit of perfection for the sake of progress.



Every individual in our team is part of a glorious system bursting with talent. We leverage each other's strengths, we bring out the best in each other, we are dependent yet autonomous. Our standalone work might be impressive, but it excels when done together, creating the highest value possible for our clients.



DRIVING WITH TRUST

Every project and every partnership must rest on a foundation of trust - trust in abilities, in the shared objective, in solving and succeeding together. This elevates our work to more than just transactions, and gives rise to the best solutions and outcomes.



SIMPLE IS BEAUTIFUL

Kick complexity to the curb, focus on smart and simple work. This way, you'll likely find the most elegant solution to any given challenge and move on to new initiatives to invest your time in, for creating the next new simple solution.



VALUE THE YOU

We are a team of diverse members, opinions, perspectives and mindsets. All the better to innovate with! Put your point of view forward, let us debate, discourse, learn, unlearn and create value with the unique skills that every individual member has to offer.





DATA ENGINEERING – Services Overview

Service	Deliverables	Benefits
Data Integration and Management. Integrate, streamline and manage the entire data	 Cloud-native data lakes, marts, and enterprise data warehouse solutions Auto-aggregation of data across IoT, social, enterprise apps and external partners 	 Cost Avoidance Reduced manual effort to aggregate and resolve data discrepancies Reduced human error rework
lifecycle for both internal and external consumers.	 Adopters and pipelines to source data 24×7 monitoring and operations for data integration and management, including archival and destruction 	 Cycle Time Reduction Months to days/weeks to prepare data for analysis
	Assurance of data privacy and security	 Long-Term Revenue Shorter path to valuable insights
		Risk AvoidanceMitigation of risk from outside intrusions and breeches
Data Transformation.	Unified format and location of data	Cost Avoidance
Prepare, curate and transform data to illuminate actionable insights.	 High quality and consistency of data Obfuscation and concatenation of data, where required Data validation 	 Further reduced manual effort to resolve data discrepancies Further reduced human error rework
	Support to keep your ETL pipelines healthy	 Cycle Time Reduction Days/weeks to minutes/seconds to prepare data for analysis
		 Long-Term Revenue Gain and/or Mission Further expedited path to valuable insights



DATA ENGINEERING — Services Overview (cont'd)

Service	Deliverables	Benefits	
Data Analytics. Create, distribute and act on data-driven business intelligence.	 Thought partnership in defining your business goals, revealing the insights needed Implementation of Analytics and Visualization platforms and tools Data science solutions like Al and Machine Learning for predictive and real-time analytics 	 Cost Avoidance Overall better decision-making (less rework) "Flight Control" for key strategic initiatives (real-time process intelligence leading to less rework) Short and Long-Term Revenue Gain Points to a business strategy from the ground up Fosters better customer relationships Can increase sales Can enable new product and service revenue streams Identifies financial drivers and enables financial forecasting 	
Data Governance and Master Data Management Define data structures, owners, SOPs and metrics, and abide by them.	 Design, implementation, and management of data governance and MDM strategies and solutions Data lineage solutions Data cleansing and merging Workflow, audit and compliance solutions 	 Cost Avoidance More reliable decision support resulting from consistent, uniform data across the organization Clear rules for modifying processes and data, minimizing churn and delay in the organization 	
		 Risk Avoidance Improved compliance with data regulations Safeguards against security breaches Safeguards against unauthorized distribution 	



Data Engineering - Benefit Examples

Services	Benefits
Data Analytics	Increased Deal Value. Access to more data than the seller provides, such as consumer sentiment (social media) and salesforce effectiveness (CRM) data.
	Cost Avoidance. Operational efficiencies such as Talent Management:
	• 3 rd party skill search for recruitment
	 Identification of high-performing employees for retention and development opportunities
	Short-Term Revenue
	Integration and culling of R&D pipelines to reduce redundancy and go to market faster
Data Analytics	Long-Term Revenue
,	A product-led growth strategy facilitated by analytics embedded in software.
Data Analytics	Risk Avoidance
Data Lineage	 Industry best-practice data programs (reports, metrics, data elements) to satisfy regulatory requirements of the Fed in the US and the EBA in Europe
	Data lineage documentation
	Cost Avoidance
	Data aggregation to automate reporting described above
	Data Analytics Data Analytics



DATA ENGINEERING — Preferred Tools























CLOUD ENGINEERING — Services Overview

Service	Deliverables	Benefits
Cloud Migration: Lift-and-shift rehosting of on-premise application or workload to the cloud.	 Migration strategy development Application modernization Migration of databases, applications, and infrastructure to the cloud 	 Cost Savings and Cost Avoidance: Reduced on-premises infrastructure costs – hardware, maintenance, and management Reduced costs through ability to automatically spin-up and spin-down resources to match demand Risk Avoidance:
		Cloud security services such as role-based access control, multifactor authentication, and unified hybrid security processes
Cloud-Native Solutions:	 Cloud strategy and architecture design 	Long-Term Revenue
Design and development of modern architectures and more	 Development of Microservices and API-first architectures 	 API-ready environment to enable faster product development and personalized customer experiences
automated application lifecycles.	 Design, development, and implementation of DevOps solutions and implementation of cloud-based data platforms 	 A platform and operating model to enable faster, more frequent application deployments
		Cost Avoidance Reduced time between when developers write the code and when it moves into production

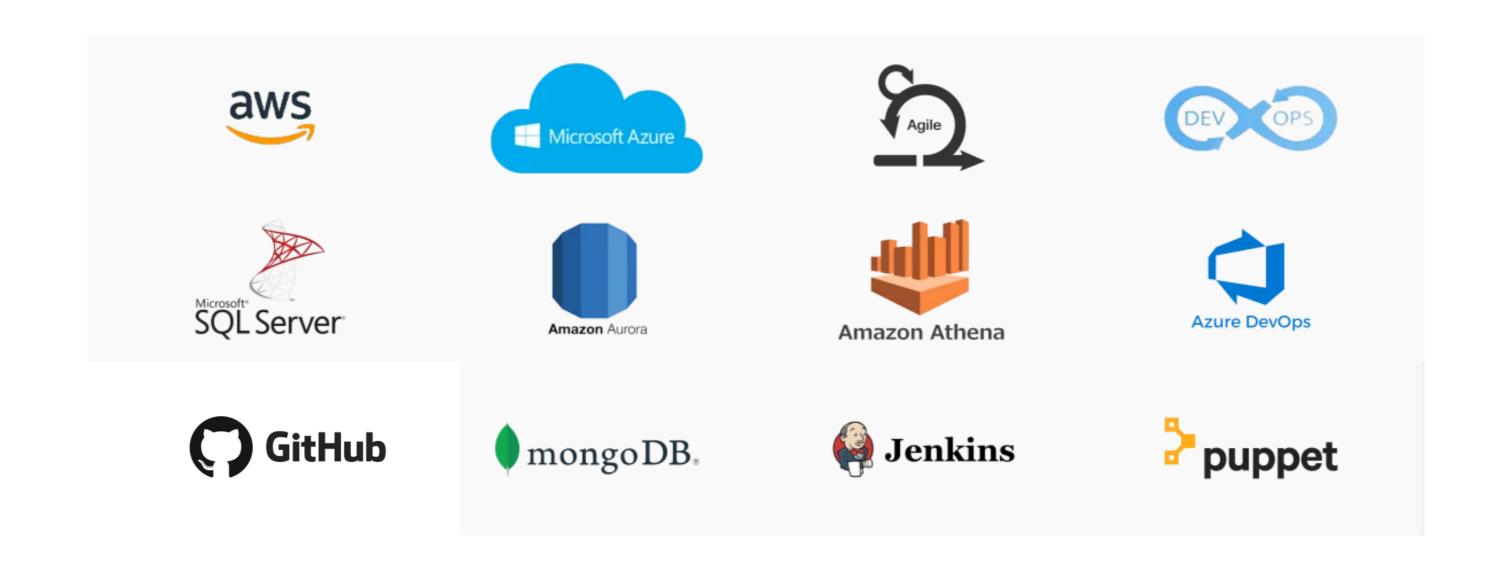


Cloud Engineering - Benefit Examples

Company	Services	Benefit
Companies who have yet to begin their cloud migrations in earnest,	Cloud Migration Strategy Development	Cost Avoidance Advanced planning predicts a reliable ROI for your cloud migration, considering the all the puts and
OR		takes of a migration—e.g., upfront costs, next-gen cloud skills recruitment, security and compliance requirements, and early termination fees.
Companies who have experienced missteps in the coordination of their cloud migrations, e.g., cost overruns and timeline delays.		
Companies focused on customer experience	Cloud Native Solutions	Long-Term Revenue Cloud-enabled technologies like Al and Machine Learning deliver personalized customer journeys based on behavior patterns to retain customers. For example, in the banking industry, overdraft warnings based on spending patterns, and exchange-rate offers using geolocation data.
Companies more vulnerable to	Cloud Migration,	Risk Avoidance
cyberattacks and/or subject to regulatory compliance	Cloud Security Services	RapidScale claims that 94% of businesses saw an improvement in security after switching to the cloud, and 91% said the cloud makes it easier to meet government compliance requirements.
Companies in need of improved disaster	Cloud-Native	Cost Savings
recovery planning	Solutions	 No investment needed in duplicated software and hardware No dedicated on-premise DR site staff
		Cost Avoidance
		Minimized downtime



CLOUD ENGINEERING — Preferred Tools





PRODUCT ENGINEERING – Services Overview

Service	Deliverables	Benefits
New Product Development. From ideation to product launch.	 UI/UX design API development Web and mobile app development 	Cost Avoidance Reduced internal labor cost – internal Product Engineering resources can focus on current product set while dedicated set of resources evaluate and assess new product opportunities
	 Agile engineering and DevOps 	Cycle Time Reduction and Short-Term Revenue: Faster time to market – a full-service New Product Development (NPD) process can take a concept from Product Managers, validate via prototype, and then, if needed, scale to production grade.
Product Modernization. Deconstructed, updated	 Application re-architecture Code rewrite to newer 	Cost Avoidance More targeted and contained functional updates – less risk of disrupting unrelated application
applications designed for the cloud.	technologiesMigration to cloud	Long-Term Revenue Ability to consume a wide variety of innovative services that are available in the cloud, such as AI, industry, and domain services, leading to new insights or new products



Product Engineering - Benefit Examples

Company	Services	Benefit
Small or Startup Product Companies	Cloud Engineering Product Engineering	Short-Term Revenue
		Faster time-to-market where engineering teams are fully committed with running the business
		 Faster time-to-market when no infrastructure for new product development exists – i.e., Agile and DevOps processes
Companies where bureaucracy prevents rapid standup of a prototype	Cloud Engineering Product Engineering	Short-Term Revenue Faster time-to-market for promising new product ideas
		Cost Avoidance Less time spent developing new product ideas less promise
Product Companies where IT is not the main line of business	Cloud Engineering Product Engineering	 Cost Avoidance Less time spent trying to build prototypes without prototyping expertise Effort spent on core competency of business instead



QUALITY ENGINEERING — Services Overview

Service	Deliverables	Benefits
Test Design and Automation. Identify, design, and build the elements of the QA process that can be automated.	 API and Web Services Testing. Test automation services for functional, regression, and performance testing for API and web services. 	Cycle Time Reduction An operating model to enable faster, more frequent testing cycles, and hence application deployments
	 Web and Mobile App Testing. Functional, regression, and performance testing for web and mobile applications. Security, Performance, and Load Testing. Comprehensive load, security, and 	 Cost Avoidance Reduction in IT budget on QA testing costs Redirection of staff to new, potentially revenue-producing development projects
	 performance testing of your applications. DevOps integration 	 Risk Avoidance Decreased downtime and increased SLA compliance due to known operating capacity, infrastructure sufficiency, and resilience of an application Early and automated exploitation of application security vulnerabilities
Crowd Testing. Real-world crowd testing with people across markets, locations, countries, and cultures.	Crowd Testing project planning according to demographic needs, testing requirements, and budget	Risk Avoidance Increased test coverage given large base of testers covering broad range of devices, browsers, and demographics
		Cycle Time Faster test cycles given 24/7 test activity
		Cost Avoidance Reduction in IT budget on QA testing costs



Quality Engineering - Benefit Examples

Company	Services	Benefit
Companies where application usage is high stakes and defects are unacceptable	Test Design and Automation	Cost Avoidance Secured reputation, no damage control
Small or startup companies	Test Design and Automation	Cost Avoidance Reduced fatigue and bias-related errors in favor of dedicated, impartial testers
Companies who recognize that the expertise needed for quality engineering is not just testing but also coding	Test Design and Automation	Cost Avoidance, Risk Avoidance, Cycle Time Reduction Testing has changed. It's no more about just the manual testing of monolithic applications but nowadays of automation and highly distributed architecture/systems/integration. This requires skills. Sets that are highly technical and can write code for testing.
Companies who see quality engineering as necessary - but not differentiating	Test Design and Automation	Cost Avoidance Our clients know that rigorous quality engineering is needed, but they don't see it as a differentiator for their product and therefore do not want to expend internal resources on it.

QUALITY ENGINEERING — Preferred Tools







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