ContextDrive:

Simplifying Software Solutions

ContextDrive is a software company founded by two individuals with combine 32 years of experience in the industry. Leveraging their deep understanding of software development life cycles, from requirement gathering to deployment and support, ContextDrive specializes in providing comprehensive software services to clients across diverse domains.

Software Testing Services

1 **Functional Testing**

Our team of experts ensures that the application's features and functionality work as intended, thoroughly testing the UI, business logic, and service layers to identify and resolve any issues.

2 **Automation Testing**

We implement robust automated test suites to improve the efficiency, reliability, and coverage of regression testing, enabling faster feedback loops and continuous integration.

3 **Performance Testing**

We evaluate the application's performance under various load conditions, identifying performance bottlenecks and optimization opportunities to ensure a seamless user experience.

Diverse Experience

Work Experience with Leading Companies

During our professional careers, we have worked with companies such as Sapient, Tesco, Zeotap, Onsight Go, Collibra, Medidata, and many more. In these roles, we have demonstrated our ability to effectively support both startups and established enterprises.

Collaborative Approach

Our professional journey has involved indirect or direct collaboration with a wide range of organizations, fostering a culture of teamwork and adaptability.

Versatile Expertise

From startups to global enterprises, we have leveraged our diverse expertise to deliver successful projects across a broad spectrum of industries.

Functional testing capabilities

Diverse Domain Experience

Our team's functional testing expertise spans a wide range of industries, including Hospitality, E-commerce, Telecom, Retail, SaaS, Adtech, Medical, and Fintech. Our founders' diverse experience in these domains enables us to deliver tailored testing solutions that meet your unique business needs.

Comprehensive Capabilities

Our team possesses deep expertise in testing applications built on backend services (Java, .NET, Go, Node.js, Python), front-end frameworks (React, Angular), and mobile app testing across both native and non-native platforms. This comprehensive skill set ensures thorough and reliable testing for your applications.

SaaS and Serverless Testing

ContextDrive team specializes in testing applications integrated with SaaS platforms (such as AWS API Gateway and Apigee) and those built using serverless architecture. We stay up-to-date with the latest technologies to provide cutting-edge testing solutions for your cloud-based systems.

Comprehensive Testing Capabilities

Web, Desktop,Mobile and API

ContextDrive's testing capabilities cover a wide range of application types, including responsive web applications, desktop software, and native mobile apps for both iOS, Android platforms and API..

Databases and Data Processing

The team specializes in testing complex data pipelines, ETL processes, real-time data streaming applications, and advanced data visualization tools such as Tableau, Power BI, and Google Data Studio.

Infrastructure and Cloud

The team possesses extensive experience in testing on-premise and cloud-based infrastructure, including services on platforms like GCP,AWS and Azure. The focus is on cloud asset provisioning, access controls, and end-to-end system integration.

Quality Assurance Methodology

Plan

1

ContextDrive team begins with a comprehensive planning phase, understanding the project requirements, defining testing objectives, and aligning on the testing approach to ensure a thorough and strategic testing process.

Design

2

The team then designs the testing framework, including test cases, test data, and automation scripts, to create a robust testing strategy that covers all aspects of the application's functionality.

Execute

3

The testing phase involves the execution of manual and automated tests, with continuous monitoring and reporting to identify and address any issues quickly and efficiently.

Optimize

4

ContextDrive's approach includes an optimization phase, where the testing process is continuously reviewed and refined to improve efficiency, effectiveness, and overall quality assurance.

Continuous Improvement

Agile Methodologies

ContextDrive aligns its testing processes with Agile methodologies, ensuring seamless integration with the client's software development lifecycle. This allows for rapid iteration, continuous feedback, and a tight feedback loop between development and testing.

Test Automation

The team invest building robust test automation frameworks and tool, leveraging the latest tools and techniques to enhance testing efficiency and coverage. This enables ContextDrive to deliver comprehensive, high-quality results while reducing manual effort and enhancing overall testing speed.

Process Optimization

ContextDrive continuously reviews and optimizes its testing processes, incorporating feedback and industry best practices to deliver the highest quality outcomes. This dedication to process improvement ensures that the company stays ahead of the curve and provides the most effective testing solutions for its clients.
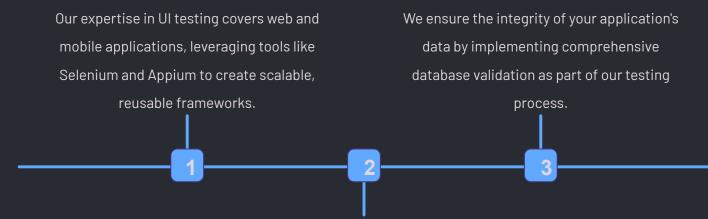
Comprehensive Automation Testing Solutions

ContextDrive offers a comprehensive suite of software testing services, with a strong focus on automation testing. Our experienced team specializes in validating UI, API, and database layers across web, mobile, and API-based applications, ensuring the quality and reliability of your software.

Expertise in Functional Automation

UI Validation

Our expertise in UI testing covers web and mobile applications, leveraging tools like Selenium and Appium to create scalable, reusable frameworks.

Database Validation

We ensure the integrity of your application's data by implementing comprehensive database validation as part of our testing process.

1 **2** **3**

API Testing

We excel in API testing, utilizing tools like RestAssured and Postman to validate the functionality and integration of your application's APIs.

Diverse Technology Expertise
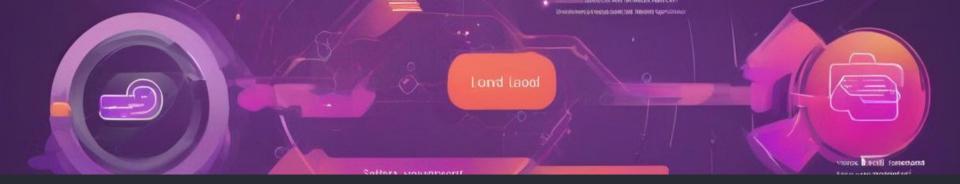
Native Platforms

Our team has extensive experience in testing applications built on native platforms, such as iOS and Android, ensuring seamless functionality across devices.

Non-native Platforms

We also excel in testing applications developed on non-native platforms, leveraging our expertise to validate their performance and integration.

Extensive Toolkit

Our automation toolkit includes a range of specialized tools, from Selenium and Robot Framework to RestAssured and Pytest, tailored to specific testing needs.

Streamlining the Testing Process

1 **CI/CD Integration**

We seamlessly integrate our automation suites into your CI/CD pipelines, enabling early feedback and continuous testing throughout the development cycle.

2 **Harness Tool Creation**

Our team develops custom harness tools to assist functional testers and business users, reducing manual effort and focusing on high-value areas.

3 **Reporting and Notifications**

We provide flexible reporting options, including Slack and email notifications, to keep your team informed and aligned on testing progress.

Expanding Testing Capabilities

1

Flexible Approach

We tailor our automation testing solutions to your specific needs, ensuring they align with your software development processes and best practices.

2

Continuous Improvement

Our team is committed to staying up-to-date with the latest trends and technologies, continually enhancing our testing capabilities to deliver optimal results.

3

Collaborative Partnership

We work closely with your team to understand your requirements, provide expert guidance, and jointly develop testing strategies that drive the success of your projects.

Driving Quality and Reliability

Comprehensive Testing

Our automation testing approach covers all layers of your application, ensuring end-to-end quality assurance.

Accelerated Feedback

By integrating our automation suites into your CI/CD pipelines, we provide timely feedback throughout the development cycle.

Reusable Frameworks

Our scalable and reusable automation frameworks enable efficient testing and maintainability of your software.

Continuous Innovation

We continuously evolve our testing practices to keep pace with the latest technologies and industry best practices.

Proven Automation Expertise

Tools	Selenium, Robot Framework, RestAssured, Pytest, Postman
Frameworks	BDD, Data-driven, Keyword-driven
Platforms	Web, Mobile (iOS, Android), APIs, Databases
Industries	Hospitality, E-commerce, Telecom, Retail, SaaS, Adtech, Medical, Fintech

Software Performance Testing Expertise

Our team possesses extensive experience in performance testing, delivering a range of services across diverse technologies and industries. From testing service architectures to optimizing cloud deployments, we are equipped to tackle your performance challenges and help you achieve your business objectives.

Server Side Performance Testing

1   Stateful & Stateless Services

Expertise in testing a wide range of service architectures, including stateful and stateless services.

2   Diverse Technologies

Proficiency in testing services built on Java, Python, .NET, Go, and Node.js technologies.

3   Architectural Approaches

Experience with microservices and monolithic application architectures.

4   Data Pipeline and ETL

Analyzing worker node capacity, identifying individual component timelines, and analyzing end-to-end pipeline timelines and data integrity.

Performance Testing Approach

1
Client-side Testing
Focus on simulating real-time user scenarios to measure client-side performance.

2
Application/Service Layer
Identify and address performance issues at the application/service layer.

3
Infrastructure-level
Optimize system scalability and efficiency by addressing server-side bottlenecks.

Performance Testing Tool Proficiency

JMeter

Extensive expertise in using JMeter for real-time traffic simulation and scenario testing.

Other Tools

Ability to utilize Gatling, Locust, Postman, and other suitable tools for performance testing.

Real-time Testing

Experience in testing real-time data ingestion and adherence to SLAs for synchronous and asynchronous services.

Monitoring and Analysis

Server-side Monitoring

Utilization of tools like New Relic, Dynatrace, and AppDynamics for comprehensive server-side monitoring.

Database Optimization

Monitoring of database pooling sizes and non-RDBMS databases to identify and address performance bottlenecks.

Scalability Optimization

Focus on optimizing application scalability, system efficiency, and reducing infrastructure costs.

Mobile and Web Application Testing

Mobile Apps

1 Identification and resolution of performance issues in iOS and Android mobile applications. Testing includes Screen Rendering,Memory utilisation,CPU utilisation, Battery consumption, App launch time and other performance parameters

Web Apps

2 Testing and optimisation of client-side performance for web applications

SLA Measurement and Infrastructure Review

1

SLA Measurement

Comprehensive measurement and analysis of service-level agreements (SLAs) to ensure compliance.

2

Infrastructure Review

In-depth review of infrastructure artifacts to identify opportunities for performance optimization.

3

Scaling Strategies

Analysis of application scaling, including auto-scaling and fixed instance scaling, to enhance performance.

Flexible Engagement Models

Comprehensive Managed Solutions

In this approach we handle everything from start to finish, making sure your projects run smoothly. We use resources wisely to manage projects efficiently. With us leading the way, clients can relax, knowing their projects are in good hands.

Tailored Testing Team

In this approach, we build dedicated testing teams tailored to support our clients' long-term needs. This ensures continuity, fosters deep domain expertise, and allows for a personalized strategy to meet each client's specific requirements.

Consulting Services

At ContextDrive, we believe in empowering our clients to excel in testing. We prioritize knowledge transfer, sharing best practices, methodologies, and providing hands-on training. By doing so, we help clients build their internal testing capabilities, establishing sustainable programs that drive long-term success.

Take Your Software Quality to New Heights

Partner with ContextDrive for comprehensive testing services that elevate your software reliability and performance. Our seasoned experts deliver tailored solutions to meet your unique business needs.

Empower your organization with the confidence of high-quality, reliable services and unlock new growth opportunities.

Visit ctxdrive.com or email us at hello@ctxdrive.com