Outsourcing Services: Outcome-Driven Engineering & Architecture

Our outsourcing services are structured to move beyond traditional staff augmentation. Our outcome-based contracts ensure the client pays for business value delivered, rather than the effort expended. We provide specialized engineering partnerships capable of solving complex architectural problems and accelerating time-to-market across the following core domains.

I. Core Capabilities

1. AI & Data Science

- **Agentic AI Orchestration:** We build autonomous, multi-agent workflows that can execute complex, multi-step business logic, moving beyond basic API wrappers (e.g., automated document parsing for legal tech or predictive diagnostics in healthcare).
- **Private LLM Infrastructure & Fine-Tuning:** We design and deploy secure, localized AI models on dedicated high-performance GPU clusters. This is highly sought after by regulated industries that cannot send proprietary data to public endpoints like OpenAI.
- **Secure AI & Model Vulnerability Testing:** We apply security research methodologies to test AI implementations for prompt injection, data leakage, and logic flaws before they hit production.

2. Java & Backend Architecture

- **Asynchronous Event-Driven Microservices:** We design high-throughput, low-latency architectures using Java and robust event brokers (like MQTT or Kafka). This is critical for IoT ecosystems, real-time tracking, and high-volume transaction processing.
- **Extreme Low-Latency Engineering:** We offer specialized backend tuning, such as custom memory-based file systems, circular buffers, or Linux kernel-level optimizations, for applications where millisecond response times are non-negotiable.
- **Legacy Modernization to Cloud-Native:** We architect the transition of legacy monolithic Java applications into highly scalable, containerized microservices ready for modern cloud deployment.

3. AWS & Cloud Infrastructure

- **Hybrid Cloud & Infrastructure Orchestration:** We design complex environments that bridge highly secure on-premise servers with AWS. This provides clients with data sovereignty, compliance readiness, and reduced cloud lock-in.
- **DevSecOps & Zero-Trust Architecture:** We implement robust CI/CD pipelines deeply integrated with automated security scanning, network vulnerability management, and infrastructure-as-code.

- **Cloud FinOps (Cost Optimization):** We conduct deep architectural audits of existing AWS deployments to identify resource waste, right-size instances, and redesign data flows to significantly reduce monthly cloud spend.

4. Salesforce

- **Complex Enterprise Integrations:** We go beyond standard setups by architecting seamless, secure connections between Salesforce and bespoke Java backends, legacy on-premise databases, or AWS data lakes using custom APIs and middleware.
- **Custom AppExchange Development:** We design, build, and navigate the rigorous security review process to launch custom SaaS products and ISV applications within the Salesforce ecosystem.
- **Process Automation & Einstein AI:** We implement advanced Apex triggers, complex workflows, and Salesforce's native AI capabilities to automate heavy manual processes.

5. Performance Testing & Engineering

- **Deep-Dive System Profiling:** We elevate our offering from simple load testing to full-stack performance engineering. We diagnose and resolve bottlenecks at every layer—from JVM garbage collection tuning and database query optimization to network interface routing.
- **Chaos Engineering & Resilience Testing:** We intentionally inject network failures and system faults into distributed microservice architectures to prove high availability and validate failover mechanisms under extreme stress.
- **Security-Integrated Testing:** We combine performance validation with deep penetration testing and reverse engineering techniques to ensure production builds are hardened against zero-day exploits and malware.

6. AI-Driven Quality Assurance & Test Automation

- **Self-Healing Test Frameworks:** We implement advanced AI-driven testing tools that automatically adapt to UI and DOM changes, drastically reducing the maintenance overhead of automated test suites.
- **Automated Test Generation:** We utilize custom LLM pipelines to ingest architectural documentation and user stories, automatically generating comprehensive, edge-case-aware test scripts before application code is written.
- **Predictive Defect Analytics:** We apply machine learning models to historical commit data and system logs to identify high-risk code areas, allowing QA teams to focus efforts exactly where regressions are most likely to occur.

II. Engagement & Pricing Model

1. The Two-Phase Engagement Model

Phase 1: Architecture & Discovery (Fixed Price)

We execute a comprehensive system audit or architectural blueprint. Drawing on decades of architectural experience, we assess the current state, define the architectural requirements, and design the solution. This minimizes client risk before committing to a massive build.

- **Deliverable:** A technical roadmap, system architecture document, and a firm fixed-price proposal for Phase 2.
- **Pricing:** A flat fee for a 2-4 week engagement.

Phase 2: Milestone-Based Execution (Fixed Price per Outcome)

Once the blueprint is approved, the execution is priced against specific, functional deliverables. Payments are tied to the client accepting the deliverable, not the end of the month.

- **Deliverable Examples:** "Delivery of secure payment gateway integration," "Completion of AI document parsing pipeline," or "Load testing certification for 10,000 concurrent users".
- **Pricing:** Pricing for each milestone is based on the value it provides and the risk involved.

2. "Cross-Functional Pod" Delivery

When a client buys a milestone, they aren't buying an individual developer; they are buying the capability of a full-stack squad. To execute with precision, we seamlessly deploy a tight-knit unit comprising backend developers, UI/UX designers, AI specialists, and QA engineers, all operating under strict 30-year architectural oversight.