

EXECUTIVE PROFILE

Transitioned from a 20-year web veteran and SaaS founder to an AI-Native Orchestrator. I orchestrate agentic swarms to deliver secure, production-grade enterprise ecosystems in days, not months. Over 20 years of technical evolution—from bootstrapping a global framework to leading digital transformations for major financial institutions—I operate at the intersection of extreme speed, rigorous governance, and architectural ingenuity, guaranteeing the delivery of fully functional, production-ready systems within a standard 7–14 days.

CORE FOUNDATIONS

The 14-Day Production Mandate

If an architecture cannot be production-ready and fully audited in two weeks, it is over-engineered. We build modular, battle-tested foundations designed for rapid deployment.

SaaS Disintermediation & Hybrid Scaling

Building enterprise platforms for 4,500+ users on a \$0 incremental server budget by ingeniously pairing serverless execution with existing corporate cloud assets.

Strategic Model Tiering

Utilizing highly optimized, cost-efficient, current-generation AI models for high-precision logic to keep operational costs near zero, reserving massive premium models for high-value reasoning anomalies.

The 'Least-Effort' UX

User input is a design failure. I architect systems that listen, see, and predict using edge capabilities to reduce human operational friction to near zero-tap interfaces.

Secure-by-Design (Day 1)

Injecting banking-grade compliance, multi-tier RBAC, and robust end-to-end encryption schemas into the first 24 hours of any system blueprint.

PROFESSIONAL EXPERIENCE

AI Solutions Architect & Digital Transformation Leader March 2025 – Present (1 Year 4 Months)

Instec Digital Systems

Architecting and deploying enterprise-grade Generative AI solutions and automated code-generation frameworks to optimize internal and client development lifecycles.

- Strategic Roadmap & AI Vision: Partner with cross-functional leadership and enterprise clients to define the strategic roadmap for next-generation digital transformations, LLM integrations, and AI adoption.
- Generative AI & Code Gen: Design and build custom AI pipelines and workflow engines (including JS Bank AI Champions Portal and Centralized Email Signature Suite) to accelerate development times and automate legacy IT operations.
- Agentic AI Enablement & Training: Designed and delivered comprehensive workshops tracing the evolution from generative AI to Agentic AI and multi-agent platforms. Taught corporate executives and departmental leaders how to build progressively trained autonomous agents to handle daily routines with detailed audit trails, governance, and complete compliance intact.
- Intelligent Operations (AIOps): Architected and deployed natural language AI agents integrated directly into existing enterprise monitoring and logging stacks (including SolarWinds, Elasticsearch, and Kibana), converting complex system querying into simple conversational streams.

Founder, CEO & Principal Architect June 2013 – Present (13 Years 1 Month)

Intrepid

Founded and currently lead Intrepid, an engineering firm specializing in AI-native mobile applications, enterprise web platforms, and sovereign cloud infrastructure ecosystems.

- AI-Native Mobile & Clinical Systems: Architected and deployed cross-platform applications (Flutter/Riverpod) including AuraSpend (~77.5k LOC multimodal financial tracker), VitalSync (59.2k+ LOC clinical telemetry & BLE health ecosystem), and GlassWords.
- Enterprise Web, FinTech & SaaS Engineering: Engineered 30 production-grade ecosystems across Next.js, React 19, SvelteKit 5, Go, and Python—including StoreVox ERP, Dictabill, TaxSage RAG, SchnittFlow, Brooky Treats FinTech, and Inos ITSM.
- Sovereign Cloud SRE & DevOps: Designed and managed a zero-incremental-cost sovereign cloud on Oracle ARM64 VPS hosting 68 concurrent Docker containers, IntrepidVPN (WireGuard/Go netlink), and the Orbit SRE Gateway.
- Product & Technical Governance: Established strict '14-Day Production Mandate', zero-knowledge WebAuthn/AES-256-GCM security, and Generative Engine Optimization (Schema.org @graph, llms.txt) across all properties.

Principal Cloud Solutions Architect & Enterprise Migration Lead August 2023 – March 2025 (1 Year 8 Months)

Instec Digital Systems (Google Cloud Practice / JS Bank)

Spearheaded nationwide digital transformation for a major private-sector commercial bank to Google Cloud, Workspace, and ChromeOS Enterprise. Handled end-to-end cloud infrastructure while independently architecting cross-departmental automation systems.

- Directory & License Optimization: Audited and restructured a fragmented directory of 4,500+ accounts (segmenting contract/active/resigned staff) to map data profiles and secure massive licensing cost savings.
- Coexistence & Split Delivery: Architected split-delivery email routing for Workspace/M365 coexistence (retaining Microsoft for offline Excel power users) utilizing secure DKIM/SPF protocols.
- Google Workspace & License AI Enablement: Led training for corporate departmental leaders on Google Workspace optimization. Educated teams to leverage the built-in AI integrations and collaboration features included in their basic Workspace licenses, maximizing software assets and ensuring a seamless, hiccup-free transition.
- Self-Initiated Automation & Team Enablement: Independently championed cross-functional workflow optimization, building custom, secure automation engines using AppScript, Google Cloud, and GAM to bridge disparate databases, compressing manual tasks down to minutes.

Senior Cloud Solutions Engineer & Full-Stack Web Architect April 2014 – July 2023 (9 Years 4 Months)

Instec Digital Systems

Delivered high-performance cloud, infrastructure, and full-stack web solutions for a diverse portfolio of corporate, enterprise, and educational clients. Served as technical lead for complex legacy migrations, web engineering, and enterprise enablement.

- Cloud Infrastructure Management: Designed, managed, and optimized AWS environments, including Amazon Lightsail instances and secure Amazon S3 storage structures to host high-traffic client platforms.
- Google for Education Emergency Mobilization: Designed and executed training programs for school teachers, faculty, and administration to adopt Google for Education. Created comprehensive guides and transition manuals during the pandemic, enabling schools to successfully move to remote learning without operational hiccups.
- Legacy Migrations & Web Engineering: Orchestrated zero-downtime website and database migrations from outdated legacy hosting providers to secure AWS environments.
- Custom Web Development: Engineered custom-coded digital solutions and enterprise-grade content management systems (CMS) including WordPress, Magento, and Drupal.

TECHNICAL SKILLS MATRIX

AI Orchestration & Intelligent Systems

Autonomous Swarms & Workflow Orchestration

Bilingual Urdu-English NLP Speech Parsing

Structured JSON Schema Output Constraints

AI Auto-Triage & Clinical/Statutory Guardrails

Multimodal OCR & Scenario Extraction

Cloud, Infrastructure, & DevOps (SRE)

Sovereign VPS Hosting & Bridge Isolation

Docker Socket Proxy & Jail Permissions

Bun 1.1, Go 1.24 & Alpine Container Tuning

WireGuard VPN & Raw TLS TCP Protocols

CI/CD Automations (Fastlane & Google APIs)

SKILLS MATRIX (CONT.)

Enterprise Stack & Interactive Web/Mobile

Next.js 15/16, React 19 & SvelteKit 5 (Runes)

Flutter Cross-Platform Engines (Riverpod)

Passkey Biometrics (WebAuthn/FIDO2) & AES-GCM

Row-Level Security (RLS) & DB Context Poolers

Chrome Manifest V3 Extensions & Canvas Editor

Smart IoT Integrations, BLE GATT & Cast SDK

WebUSB ESC/POS & WebSerial Binary Compilers

Astronomical Math & Bidirectional LTR/RTL Guards

CREDENTIALS & ENABLEMENT

Virtual University

BS, Computer Science

Google Certified Professional ChromeOS Administrator

G Suite Administration Specialization

Programming for Everybody (Python)

AI Enablement: Agentic AI & Autonomous Workflows

Google Workspace & AI Standard License Optimization

Google for Education Remote Learning Architectures

KEY BUILT SYSTEMS PORTFOLIO (FLAGSHIP 12 OF 30 PRODUCTION ECOSYSTEMS)

AuraSpend

FLUTTER 3.41

Offline-first mobile financial tracker capturing transactions via local AI receipt OCR, voice, and 24/7 notification sync.

- Built an Android background service tracking bank alerts 24/7 with zero battery drain.
- Engineered a 0-100 confidence Smart Merge Engine matching receipts, SMS, and voice logs.

TaxSage

PYTHON 3.12

Bilingual Pakistani tax advisory and IRIS return compiler powered by statutory RAG and deterministic tax calculators.

- Paired section-aware statutory RAG (Income Tax Ordinance 2001) with deterministic Python tax calculators.
- Built an automated Section 116 Wealth Statement reconciler and FBR notice response generator.

IntrepidVPN

GO 1.24

Sovereign WireGuard VPN platform with a Go netlink control plane, RAM-only zero-log nodes, and cross-platform clients.

- Built a Go 1.24 netlink daemon configuring kernel WireGuard peers in-memory without shell execs.
- Engineered client-side X25519 key generation so private keys never leave the user device.

Brooky Treats FinTech

NODE.JS

Artisanal D2C commerce platform pairing 60fps canvas scroll physics with zero-fee automated Raast/IBFT bank reconciliation.

- Built an IMAP/Gmail bank alert listener that auto-verifies Raast/IBFT transfers in real time at 0% MDR.
- Engineered a 192-frame AVIF HTML5 Canvas scroll engine with speculative pre-parser CWV defense.

VitalSync

FLUTTER 3.41

Cross-platform clinical health super-app uniting BLE medical hardware, 9-parameter lab OCR, and 24-rule clinical guardrails.

- Engineered a deterministic 24-rule Clinical Triage Engine running BEFORE generative AI calls.
- Integrated direct Bluetooth Low Energy (BLE) GATT parsing for Accu-Chek and Omron monitors.

StoreVox ERP & POS

GO (GOLANG)

Multi-tenant SaaS retail engine with GAAP double-entry accounting and offline-resilient POS cash drawer syncing.

- Decoupled tenant storage using a centralized connection router isolating merchant databases on the fly.
- Built an IndexedDB-cached offline POS with WebUSB thermal printing syncing atomically on reconnect.

Inos ITSM

SVELTEKIT 5 (RUNES)

Collaborative ITIL service desk portal serving 5,000+ staff on a single-core VPS with under 80MB idle RAM and AI auto-triage.

- Compiled frontend on SvelteKit 5 utilizing Runes for compile-time reactivity, eliminating virtual DOM overhead.
- Built a background service polling support mailboxes to automatically ingest and parse ITIL incidents.

InboxSync

FLUTTER

High-reliability background Android utility archiving SMS text messages directly to Gmail folders via native IMAP SecureSocket injection.

- Engineered direct TCP/TLS socket connections using dart:io SecureSocket to communicate with Gmail IMAP Port 993.
- Resolved background race conditions by introducing a native 20-second delayed execution broadcast receiver.

Dictabill Invoicing

REACT 19

Voice-first SaaS billing and quotation CRM converting Romanized Urdu speech to catalog orders.

- Built an interactive speech recognition simulator with real-time waveform graphics.
- Engineered an inverter capacity validation loop to block overloaded panel configurations.

Orbit SRE Gateway

NODE.JS

Zero-footprint VPS reverse proxy management gateway isolating client containers, executing WebAuthn biometrics, and self-healing services.

- Configured a Docker socket proxy exposing selective endpoints to prevent unauthorized daemon access.
- Implemented base64 path encoding and dynamic UID fallback executing file edits as local volume owners.

Aegis Auth

WEBAUTHN / FIDO2

Local-only browser extension and vault for TOTP token generation and hardware WebAuthn decryption.

- Engineered WebAuthn PRF key derivation inside hardware Secure Enclaves.
- Parsed Authenticator Protobuf streams locally with zero network leaks.

The 300 (OS Migration)

APPS SCRIPT V8

Google Apps Script web application tracking and auditing OS migrations from legacy systems to ChromeOS Enterprise.

- Mapped directory properties to custom relational sheet indices with automatic domain filtering.
- Optimized RPC payloads by 85% to prevent Google Apps Script execution time limits.