

Elisha Ebenezer

Systems Architect — platforms, integration, and identity for regulated enterprises

Healthcare, banking and telecom.

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23 years building platforms that engineering teams run. Validation that used to take days now takes minutes. 40% fewer technician dispatches. Therapy data that no longer waits on a home visit.

PROFESSIONAL SUMMARY

- **What I do:** Architecture for platforms other people have to run. Standards, reviews and current/future-state work with application, data, infrastructure and security architects. Preparing for TOGAF certification — not certified yet.
- **How it shows up:** APIs and integration so mixed systems can be used by other teams. Maker-checker and traceable therapy/payment data when the workflow is regulated. Break-up of monoliths and removal of lock-in when the stack is in the way.
- **Cloud and identity:** Reciprocity's application cloud was Azure. Separately, used AWS and GCP with Keycloak as the IdP for federated SSO (not the same deployment as Reciprocity). Also Okta, Entrust, SAML/OAuth, mTLS and certificate lifecycle.
- **Working style:** Stay close enough to the code and the operations to know whether the design is honest. Mentored teams; ran design reviews rather than throwing documents over the wall.

WORK EXPERIENCE

Systems Architect

Jul 2026 – Present

EEWorx • Independent

- **mGW:** Architected and building a plugin-based mobile gateway. Workflow talks to a cloud, a device and a provisioner — none of those are baked into the app. First working stack: HTTP enroll + standalone data plane (JWT, optional mTLS). Azure IoT Hub/DPS is a second composition on the same contracts, still in progress.

Systems Architect

Dec 2014 – Jun 2026

Virtusa • Chennai

- **Reciprocity (Azure):** Eliminated the clinician home visit that treatment data used to wait on. Led architecture and implementation of an Azure platform that takes data up from the cyclor and sends updated therapy parameters back, so therapy can be adjusted proactively. Better patient outcomes, not just cleaner logistics.
- **MFU:** Built a validation and reconciliation engine with per-template rules and maker-checker. Hundreds of thousands of transactions that used to take days now finish in minutes, with an audit trail.
- **CSP:** Wire-transfer system was a WebSphere monolith. Led the split (business process, legal vehicle, technical layer) and the implementation off WebSphere — APIs for other teams, CI, unit tests, standard application server.
- Set integration contracts and patterns other Virtusa teams reused. Ran design reviews and stayed in the mentoring loop rather than architecture-only.

Architect

Sep 2012 – Dec 2014

Mindtree

- Led the assessment, remediation and transformation of a bespoke POS platform for a major UK rent-to-own business. Integrated credit bureau (Tallyman) and payment services, improving the reliability and speed of credit and payment workflows.
- Defined technical design standards, mentored teams on Spring Batch, Spring Security and Java EE, and coordinated delivery across Technical Operations to ensure consistent, maintainable outcomes.

Architect

Aug 2005 – Aug 2012

Verizon • Software Engineer → Senior Engineer → Architect

- **Reduced technician dispatches by 40%** as architect and lead developer of network fault-isolation systems for Long-Haul, Medium-Haul and undersea optical/Ethernet networks. Improved detection accuracy and use of expensive test resources.
- Defined reusable middleware frameworks (CORBA, JMS, JAXB, JRules), established technical design standards, and provided design direction and mentoring across multiple teams on distributed systems, concurrency and enterprise integration.

Software Engineer

Mar 2003 – Jun 2005

CollabNet

- Contributed to enterprise ALM platform development and client-specific instantiation engineering.

KEY ACHIEVEMENTS (AT A GLANCE)

Days → Minutes	40% fewer dispatches	Manual → Digital loop	Monolith → Portable
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- **Days → Minutes:** Validation engine eliminated manual checks; hundreds of thousands of transactions processed in minutes.
- **40% fewer dispatches:** Fault-isolation systems reduced field visits and improved diagnostic accuracy.
- **Manual → Digital loop:** Home visits for collection ended. Edge→Cloud treatment data and Cloud→Edge therapy parameters let therapy be adjusted proactively — better patient outcomes.
- **Monolith → Portable:** Wire-transfer platform modularized, WebSphere lock-in removed, CI and unit tests introduced.

SELECTED PROJECTS

mGW – Mobile Gateway | Architect, Lead Developer | Independent

Plugin platform for moving data between devices and clouds without baking either side into the app. Separate provision, data, device, crypto and local-auth planes. Architected the design and still building it.

- The app loads cloud, device and provisioning plugins at runtime, so a given backend is not baked into the client. Standalone HTTP enroll plus data plane is the first live pair. Azure DPS and IoT Hub is a second pair on the same contracts, still in progress.
- Device plugins cover serial, USB mass-storage, BLE and card readers. Server split: bootstrap (enroll, JWT, seed) and data plane. Optional edge mTLS binds the client cert to the token so identity sits on the device.

Reciprocity – Adaptive Therapy Management Platform | Architect, Lead Developer & Mentor | Life Sciences

Eliminated home visits for treatment-data collection. An Azure platform takes data up from the cyclor and sends updated therapy parameters back — proactive therapy, better patient outcomes.

- Edge: C/C++ on the cyclor path; serial, BLE and BNEP so treatment data does not wait on a house call.
- Path: Camel on Karaf as the services router; ThingWorx as the IoT platform; Azure as the deployment cloud. Led architecture and implementation of that path, including Cloud→Edge therapy parameters.

MFU – Data Validation & Reconciliation Engine | Architect, Lead Developer & Mentor | Banking

Completely eliminated manual validation checks and reduced processing of hundreds of thousands of transactions from days to minutes while enforcing consistent rules and maker-checker auditability.

- Designed a flexible multi-template data model with independent validation rulesets and full maker-checker workflows. Led the team in implementing the solution with Spring Batch, REST APIs and EmberJS, and mentored engineers on the new patterns.

CSP – Wire Transfer Processing Platform | Architect, Lead Developer | Banking

Modernized a monolithic wire-transfer system by decomposing it into modules aligned to business processes, legal vehicles and technical layers; eliminated proprietary WebSphere dependency and introduced CI, enabling deployment on any application server with significantly improved testability and maintainability.

- Split the monolith while enforcing standards and removing proprietary dependencies. Made the application unit-test friendly and implemented Continuous Integration so it could run on any compliant application server.

Hyperion & NextGen – Optical/Ethernet Fault Isolation | Architect, Lead Developer | Telecom

40% reduction in technician dispatches; improved fault detection accuracy and optimized utilization of network test resources.

- Modularized a monolithic diagnostic application and created flexible APIs, automated diagnosis channels and clear interface layers. Implemented security and rule frameworks that supported accurate, efficient fault isolation across Long-Haul, Medium-Haul and undersea networks.
- Provided design direction and mentored teams on distributed systems patterns, CORBA, XML and enterprise integration practices.

IRIS + Tallyman Integration | Integration Architect | Retail / Rent-to-Own

Seamless synchronization of customer and debt-collection data between POS system and Experian Tallyman, enabling reliable credit and recovery workflows.

- Integrated Tallyman web services with the IRIS POS solution. Led technical design and ensured stable, auditable data flow for debt management processes.

EDUCATION

Bachelor of Engineering (B.E.) in Computer Science & Engineering — Madras University (2002)

TECHNICAL SKILLS & CORE COMPETENCIES

Architecture & Governance: Solution Architecture, TOGAF (preparing — not certified), Reference Architectures, Design Assurance, Value Chain Mapping, Domain-Driven Design

Languages & Frameworks: Java, Kotlin, Spring Boot, C/C++, Jakarta EE, REST, OSGi, EmberJS, Android, Concurrency

Cloud & Platforms: AWS, Azure, GCP, Docker, ThingWorx, SaaS / Managed Hosting

Integration & Middleware: APIs for internal teams, Apache Camel, Karaf, JMS, CORBA, JAXB, Maven, Jenkins, CI/CD

Security & IAM: Keycloak, Okta, Entrust, mTLS, PKI / Certificate Lifecycle, SSO / SAML / OAuth

Modernization: Monolith decomposition, removal of proprietary lock-in, unit-testability, CI adoption, concurrent and high-throughput design

AI-assisted engineering: Grok and Grok Build for drafts, scaffolding and review; I still own the design and the checks

Soft Skills: Mentorship, Strategic Thinking, Cross-functional Collaboration, Vendor Partnership Development

Languages: English, Tamil, Hindi