

tomwinans

Software Engineer, Chief Architect/Technologist, Senior IT Consultant

profile

25+ years
(now)

Chief Architect/Technologist and Senior IT Consultant who advises domestic and international clients on technology strategy and its alignment with business goals and objectives. Perform critical project triage and correction, or engage in architecture and implementation projects. Consulted in healthcare, financial services, telecom, and manufacturing market segments.

Perform technology due diligence for investors. Implement next generation cloud and service architectures.

1999 - 2018

Insurtech Startup CIO/Chief Architect

Established architecture vision for carrier-focused AWS-based insurance platform in which core business (underwriting, claims processing) functions are performed with machine learning algorithms. Guided client/investor engagements and R&D projects fundamental to implementing underwriting and processing engines.

Asia-based Insurance Client

Leverage complex event stream processing, service bus, and API management middleware, and build bespoke constraint-based workflow management functionality, to form a technology architecture basis for the company's new mobile digital health initiative.

Asia-based Supply Chain Client

Strategize implementation of an Industrial IoT factory and supply chain architecture that extends IIoT systems management processes to include business management processes across the supply chain. Core to the architecture is complex event processing, policy aware- and constraint-based workflow management, and machine learning techniques to discover and harmonize policy conflicts in complex business technology ecosystems.

Document Manufacturing

High volume enterprise personalized/variable print, and electronic document manufacturing platform services

founder – Concentrum Inc.

IT consulting, technology diligence, and software engineering services
Specializing in implementation of enterprise cloud and service platforms

Implement data integration pipeline to automate data acquisition and processing—US-based retail/ecommerce consultancy. (\$1.5M/year savings)

Implement 3rd party COTS document production platform, surrounding technologies, and application integration—US-based firm specializing in variable digital printing and shipping of sensitive documents (\$15M/year savings)

Asian Automotive Manufacturer

Reviewed content management portal architecture, advised of irregularities (client awarded \$30M of rework)

Bachelor of Arts, University of Arizona, May 1983, with honors
Major: Mathematics – Minor: Computer Science

contact

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tomwinans.info

competencies

technology leadership and strategy
development

service- and saas/cloud-oriented
architecture

software engineering, systems and
data integration

project management and triage

IT technology diligence

technologies

UML, RDBMS/SQL, Java, Forté,
Lisp/Symbolics, CLOS, Smalltalk,
C++, C, C#, Objective C/NEXTSTEP,
Python, Swift/iOS, FORTRAN/Cyber,
PL1/Stratus, Pascal, Mono, Linux,
Windows/.NET, distributed
computing middleware, others as
needed

Consulting
Highlights

education