

SUMMARY Financial Systems DevOps Architect and Manager with over 25 years of experience in Application Architecture and Systems Integration and over 20 years of experience in the design, implementation and management of Trading, Portfolio and Risk Management Applications, Data Analysis and Distribution. Deeply skilled with 30+ years' experience in Programming and Technical Architecture and with 24 years leading development teams. Talented in aligning business and technology teams to achieve strategic goals, managing cross-functional initiatives, managing due diligence and compliance with Investment Bank requirements, and driving IT efficiencies through RAD methodologies, integration, consolidation, shared services, standards, and reusable technology/data assets.

CORE SKILLS **Functional** Enterprise Architecture & Data Management, System Administration, SQL Administration Reference Data, Accounting, Reconciliation, Business Analysis, Technology Selection, Systems/Process Integration, SDLC, VAR analysis, financial market and trend analysis, derivative price modeling, multivariate non-linear regression, Monte-Carlo simulation, business/revenue modeling, and business process to electronic system mapping.

Technical

Financial Services APIs: NYSE/NASDAQ/CTA, MSRB, TRACE, Bloomberg, Reuters, S&P, Moody's, Fitch, Tick Data, OTCBB, Pink Sheets, MATIF/GL, LIFFE, DTB, ORAPI/ODAPI, PATS, PCQuote, Trading Technologies, FIX, MFA, Custom PMS, OMS, Performance, & Recon Applications

Databases: MS SQL Server, Lotus Notes/Domino, MySQL, SQLite, Firebird, Sybase SQL Anywhere, Sybase, DB2, dBase, Paradox, Access, Interbase, Informix, Oracle, ADS, PostgreSQL, ODBC, BDE, OLE DB, ADO, Tuple based NoSQL databases.

Libraries/API/Middleware/Protocols: .Net/COM/DCOM/ActiveX/OLE, Active Directory, MS Message Queue, MS Transaction Server (MTS), MQ Series, Neon, TCP/IP Sockets, CORBA, WINS, NetBIOS, HTTP, SMTP/POP/IMAP, SNMP, DNS, FTP, LDAP, UUCP, NNTP, CERN, MFC, OWL, BGI, X11, Motif, VMS RTL.

Programming/Scripting: .Net Family (C#/VB/Oxygen/Mono/XAML/Ajax), Delphi/Pascal, VCL, Fire Monkey, Visual BASIC/BASIC, FORTRAN, C/C++, Transact-SQL, PL-SQL, MS Office (both VBA and VS .Net), Lotus Notes, VBScript, Lotus Script, Java/JBuilder, javascript, HTML/CGI/ISAPI, XML, ASP, Cold Fusion, UNIX shell scripts, DCL, Access, awk, perl, PHP.

REPRESENTATIVE EXPERIENCE for an Investment Standards and Index/Benchmark Production Organization

- Designed, developed and implemented new Web Platform and Member Portal to support advanced analytics.
- Designed, developed and implemented new Index Production Application and workflow management system.
- Consolidate production environment. Implemented 3 stage environment Development, Staging, Production. Implemented stage promotion procedures.
- Implemented Source Control/Version Tracking, Issue Tracking and Change Management.

for a Portfolio Auditing and Evaluation Company:

- Designed, developed and led implementation of both an automated Security Master and Pricing Master system in MS SQL Server with both WinForms and ASP.Net interfaces. Wrote and implemented, integrated feed handlers for Bloomberg Data Feed, Bloomberg BSYM, S&P, Moodys, US Treasury, TRACE, MSRB for the Security Master System. Wrote and implemented nightly market data feeds for the Pricing Master including the consumption and analysis of all US Equities, all US Municipal Bonds, all US Corporate Bonds, a significant percentage of worldwide US Treasury sales, as well as OTCBB and Pink Sheets feeds.
- Designed and implemented a .Net/SQL Server/MSMQ client server Portfolio Auditing System with workflow management, integrated reporting and evaluation tools, as well as full integration with Security Master and Pricing Master. Reduced the number of analysts required to audit peak workload by 40%.
- Responsible for the installation, oversight and growth of all servers and applications within the company through 2012, including Disaster Recovery and

Business Continuity planning. Key systems included highly available multi-terabyte SQL Server databases, Email, multiple replicated SAN's, implemented all aspects of Network Security.

for a Syndicated Loan Trading Platform:

- Responsible for the installation, oversight and growth of all servers and applications within the company from 2007 through today, including Disaster Recovery and Business Continuity planning.
- Migrated production facilities from ATT's data center in New York to Amazon and eventually to Sungard Availability Services, oversaw build out of replicated cold spare production site between Philadelphia and Denver
- Acted as Technical Liaison supporting large bank clients and their technical, auditing and compliance needs. Clients including Wells Fargo, Bank of America, BONY, Citibank and Barclays.
- As enterprise architect, provided multiple enhancements to the production system, responsible for hiring both system administrators and developers and hiring a new CTO.
- Post Acquisition: Migrated production environment and DR Site from SungardAS to Rackspace, migrated Fogbugz to Jira, migrated Source Gear Vault to TFS. Decommissioned LAN/Office infrastructure, move employees to thin client VDI cloud office environment. Assist with bank client audits of new infrastructure.

for multiple RIAs and Benefits Consulting firms:

- Provided high level strategy and business consulting for reporting standards, market data feeds and loaders, compliance, disaster recovery and business continuity.
- Implemented new reporting infrastructures as well as general system upgrades including implementing new SQL Servers, Web Servers, Exchange Servers, MS Dynamics CRM, SharePoint and multiple system specific integrations and implementations.

for a Financial Services Application Service Provider:

- Provided high-level business consultation and competitive strategy, new product specification, and implementation assistance.
- Provided direct due diligence and recommendation in the selection and evaluation of Portfolio Accounting and Performance Reporting Systems.
- Provided training and implementation team and technical supervision on the implementation of FMC Pacer and related products.
- Implemented custodial data loaders, and provided a team of analysts, with custom tools to provide enhanced Security classification and management beyond what SVC could provide.

for a High Wealth/Private Client Application Service Provider :

- Implemented data management strategy and system architecture for a multi-custodial high wealth client portfolio aggregation and performance measurement system. Managed 24x7x365 production environment.
- Built a data warehouse with reconciliation tools to integrate and manage data feeds from custodians, reference data vendors, performance systems.
- Technical Liaison to both high wealth clients, custodians, RIA's and Investment Bank Private Client Divisions; focusing on technical compliance, auditing standards and data security.
- Hired and managed Systems, Help Desk and Development staff.

for a Separately Managed Accounts Management Platform:

- Successfully integrated the IT infrastructure between two financial services companies after merger. Implemented multi-office private WAN for data,

telecommunications and video. Evaluated and analyzed acquired company's product line, IT infrastructure, employee performance. Created technology integration recommendations, employee retention plans, managed acquired employee morale for Technology team.

- Developed and integrated secure network to capture and import disparate data feeds from custodians, market feeds and other sources for STP system.
- Developed and led implementation of corporate Enterprise Resource Management plan to integrate CRM, Accounting, Help Desk, Client Services, Operations and proprietary trading and portfolio accounting systems into a single 360° client-centric view.
- Managed corporate technology relationships in large-scale client build outs, performed needs analysis, RFP and Due Diligence.
- Redesigned database security model adding hierarchical client structure (Enterprise, Firm, Branch, Advisor, and Investor) allowing for security and permissions to be adjustable/cascaded at all levels.

for a Portfolio Aggregation and Normalization Service Provider

- Lead architect, project manager and principle client contact at the SVP level for development and implementation of a real time (STP) trading and portfolio management system for multiple clients, including Barclays Bank, Cargill Investments Services and others. Integration with exchanges and service providers such as the CME, CBOT, GL, PATS, PC Quote, CQG, Reuters, FIX.
- Lead architect, project manager and principle client contact at the SVP level for multiple broker-client-custodian subscription based financial services network. Initial rollout to General Motors, Chase Manhattan, Morgan Stanley, Salomon-Smith Barney, Goldman Sachs, Merrill Lynch, Cargill Investor Services.
- Designed and implemented fully automated multi-broker back office Reconciliation, Performance Reporting and Risk Management system for \$30B notional value futures and commodities portfolio, to combine and normalize disparate broker formats such that it was delivered directly to clients overnight for sophisticated Value At Risk reporting and performance management.
- Designed and implemented highly secure Lotus Domino data distribution system between Futures Commission Merchants and Middle Eastern Clients.

for DOE, University of Iowa

- Performed large-scale statistical analysis of particle production data, using n-Tuple (NoSQL) databases along with Monte Carlo simulation, multivariate nonlinear regression, relational data analysis and other techniques.
- Designed and implemented multiple high speed, distributed, 24x7 UNIX and VMS based transactional message queuing systems for high-speed data acquisition and analysis. Transaction-processing rates of 10,000 transactions per second in 1992 through 1995.

EDUCATION

- Ph.D. Experimental High Energy Physics, University of Iowa 1995
- M.S. Physics, University of Iowa 1992
- B.S. in Mathematics and Physics, New Mexico Institute of Mining and Technology 1988

DETAILED RESUME

- Available at <http://www.langland.com/printableresume.aspx>