Buzz Moschetti

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<u>SUMMARY</u>

Hands-on **Enterprise Architect, Head of Technology Solutions, Chief Technology Officer, and Partner Program CTO** with over 25 years of experience in the Financial Services industry and leading Technology startups.

- Multiple experiences designing and leading large scale transformational projects
- Current expertise in Azure & AWS Cloud Services, SPARK, MongoDB, web3/blockchain/DLT, python/javascript/Java/C, and working use of OpenAI and LangChain APIs and integrations
- Expert in data modeling and practical implementation in many domains including financial products, biotech, transportation, and manufacturing
- Excellent oral and written communications skills and customer engagement skills
- Experienced in outsourced talent integration and management models including managed service, managed capacity, and expert staff augmentation
- Creator of industry-recognized innovations including perl DBD/DBI, web service architecture, third party authentication, and data isomorphism across multiple storage & access subsystems

<u>PROFESSIONAL EXPERIENCE</u>

AMI, New York, NY   Jul 2024 – Present
Founder

Creating a next-gen technical asset catalog ("CMDB"), first of its kind to integrate design time software, infrastructure, and data definitions and runtime-time tracking of hosts and executables. AMI uniquely takes a much maligned technology (RDF triplestores) and uses modern, fast, and efficient compute and database technology to eliminate performance concerns of 20 years ago plus adds a topside LLM to vastly simplify engagement with the model.   RDF has the ability to add descriptive comments to every entity in the system including the metadata; this provides a rich textual environment on which the LLM can operate.   The design does not require all your technical assets to be loaded into the LLM.   Instead, the LLM generates SPARQL queries which the backend of AMI applies to the triplestore, thereby significantly improving data security, and reducing the chance of hallucinations.

Susynct, New York, NY   www.susynct.com   Jul 2022 – Present
Founder

Creating a new approach to distributed data **beyond Blockchain**. Susynct addresses the most pressing challenges facing blockchain and **distributed ledger technology (DLT)** in the private-permissioned use case space with two major features: the ability to use existing database infrastructure to host a participant's shared data instead of creating an entirely new data platform, and the ability to easily change entitlements, participant metadata, and even smart contract logic over time, while preserving the crypto-assuredness and executability of the historic data.
Patent Pending US-20240364545-A1

Credit Suisse Group AG, New York, NY   Oct 2018 – Jul 2022
Head of Focused Advanced Solutions & Technology (FAST)   *Sep 2020 – Jul 2022*

Responsible for Blockchain/ distributed ledger technical strategy and implementation and CSLabs, the in-house center of excellence for **AI/ ML**. Principal technical contact for Credit Suisse Digital Products business. In-depth work with **Ethereum** and **Corda protocols, web3j frameworks, SPARK**, and **AWS** and **Azure CLIs**.

Head of International Trading Solutions Technology, Global Markets   *Oct 2018 – Sep 2020*

Responsible for a global technical team of 1100 to deliver global macro and OTC trade management and Swiss-centric execution services solutions. Provided vision and design strategy for multi-asset/ multi-region portfolio management for the joint Global Markets/ International Wealth Management capital, focused on alt investment and exotics modeling, settleable v. strategy position management, and decoupled customer identifying data.

Strong technical and organizational partner and contributor to firm-wide technology initiatives including DevSecOps, InnerSource, MongoDB, API management, and public Cloud strategy. Restructured a managed capacity & service deal to significantly improve quality of delivery and operational support. Improved reliability and shortened project delivery times while reducing headcount and other hard expenses.

Experimenter and Innovator, New York, NY   *Jul 2017 – Oct 2018*

Researched Bioinformatics, Finance, and Entertainment verticals using the latest crop of technologies including transaction-enabled MongoDB, Ethereum Smartcontract on-/off-chain design and integration, semantic modeling, next-gen total asset platform management, true event-based service architectures, and everything-as-a-service architectures.

MongoDB, New York, NY   Nov 2013 – Jun 2017
Enterprise Architect & CTO of Partner Program

North American solutions design & implementation, and strategic positioning at the enterprise level for MongoDB, the #1 NoSQL database. Oversaw major financial services account presales, special systems integrator projects, and developed the ecosystem around MongoDB.

- **Hands-on development** using Java, Python, and JavaScript for a variety of use cases in many verticals including multi-product risk, index construction and pricing, reference data, bioinformatics, electronic health & medical records, smart buildings, mapping and geocentric applications, and Blockchain and semantic analysis
- **Data design mentor** for global pre-sales team of 50
- **Frequent public presenter** at the webinar, industry panel, and large conference level
- **Championed and participated in product pricing model** for large scale as-a-service deployments and special infrastructures
- **Strategist** for major partners including IBM, EMC, Tableau, Confluent, Mulesoft

JPMorgan Chase & Co., Inc., New York, NY   May 2008 – Apr 2013
Chief Architecture Officer, Investment Bank

Responsible for Enterprise Business and Technical Architecture, and important strategic and tactical design efforts for $2.28B global IT group of 9000 development & support staff. Member of enterprise-wide Architecture Board guiding technology for Firm-wide IT population of 34,000.

- **One of five technology direct reports to CIO,** organized, prioritized, and contributed to cross-tower (front office, back office, risk, infrastructure) efforts including Risk, P&L, and position system rationalization, important tools leverage in software analysis and GUI development, collateral & margin management and optimization, and migration/integration of OTC trading and risk to the next-generation in-house Athena platform
- **Reformulated Architecture Office** starting in summer 2008 following Bear Stearns acquisition
  - **Prioritized business-oriented projects** in the portfolio which included a complete overhaul of back office core processing technology
  - Reviewed project proposals, an up-front component of the SDLC, and organized a team to systematically triage hundreds of business cases per year
  - **Reduced headcount and budget by 90%** over the course of 24 months
- **Developed own charter** and created matrix reporting model involving approx. 50 leadership developers across all business areas
- **Crafted approach to Reference Data Consolidation** involving many major systems, designed a next-generation approach to scrubbing and overrides, and ultimately moved responsibility to a new manager hired for execution
- Championed, designed, and implemented full-fledged services including cross-asset post-execution trade API, dataset population and context management, and business exceptions management
- Championed, designed, and implemented richly-structured **dynamic data SDK and persistence layer** that moved major platforms beyond the traditional complications of XML, JSON, other formats, and 1000 table relational databases and unsupportably long SQL statements.
- **Designed progressive technology and data management solutions** including scalable, long-term, change-friendly persistence, stateless messaging and event-oriented architecture, no-firewall DMZ component (patent awarded 14/800,886 9225719), RDF and linked data, next-generation software/hardware/information footprint management, and future-proofed portal GUI frameworks.
- **Developed Quality and Development Practices program** begun in mid-2011 that achieved an independently measured 47% reduction in application defects in the critical applications portfolio over 14 months. Major contributor and innovator in this space to shape direction of firm-wide reporting and strategic goals.
- **Managed Information Architecture team** that designed, cataloged, and provided onboarding services for logical and physical business models that touch essentially every system and together total nearly 6000 shapes.
- **Partnered with HR in constructing sensible and targeted training,** certification, award, and reward programs and how they intersect with compensation and promotion. Responsible for advanced training and Distinguished Engineer selection process for the Investment Bank.
- **Member of both North American and European ED/VP Promotion and MD inter-rank committees**

Bear Stearns & Co., Inc., New York, NY   Feb 2000 – May 2008
Chief Architecture Officer

Responsible for Enterprise Architecture and important tactical design efforts for $700M global IT group of 2000 FTE development & support staff. Oversight role for all projects in firm-wide technology portfolio. Team of 27 SMEs and associates provided leadership in technology stack standards and leading-edge solutions architecture, software design, information modeling, product R&D, and corporate information security for projects across all lines of business including Equities, Fixed Income, Clearance, Derivatives,

Operations, Asset Management, Private Client Services, and Investment Banking. Approx. 16 matrixed reports from senior architects in LOB-aligned (but IT managed) development groups.

- **Built Architecture Office from scratch** following major reorganization of IT department where head of fixed income structuring (FAST) was asked to become CIO and took me with him into IT to help build a new management team.
- **Developed own charter**, metrics for success, communications program, and management reporting.
- **Created, syndicated, and enforced standards for SOA, web services, messaging, middleware**, workflow, programming languages, software leverage & reuse, configuration management, documentation, monitoring, and single-sign-on authentication.
- **Built the SDLC (Solutions Development Lifecycle)** management framework used by entire firm to specify requirements, design, compliance with standards, and manage asset inventory.
- **Led all technology product R&D** including distributed caches, event correlation, ETL, profilers & development tools, and defensive and operational security components.
- **Created and led the Vendor Management program**
- **Championed and crafted extremely good ELA** deals with BEA (all products including WLRT), TIBCO (all products), Oracle, Gemstone, Ascential.
- Designed and helped implement **multi-asset high performance portfolio valuation solution.**
- **Managed a 30 member combined technology & business team for OTC Derivatives STP**.
- **Managed an 8 member team to design, build, and deploy BondStudio**, the next-generation bond portfolio valuation application.
- **Speaker at SIA Conference, DWT, investment professional consortiums, and other venues** on strategies to adopt emerging technology, security, and information architecture.

Bear Stearns & Co., Inc., New York, NY   1992 - 2000
Director of Technology, FAST (Fixed Income Dept.)

Responsible for FAST (Financial Analytics and Structured Transactions) group architecture standards and design and development of major applications in $1B net revenue department. Ensured innovation in technology matched pace of business innovation to secure Bear Stearns as #1 ranked mortgage-backed securities sales and trading unit.

EDUCATION & CERTIFICATIONS

Passed CFA I exam, Series 7 & 63

B.S., MASSACHUSETTS INSTITUTE OF TECHNOLOGY