

# Anthony Whitford

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## Senior Technology Executive

### Manage Technology to Drive Competitive Advantage

Versatile and analytical technology leader engaging business sponsors to identify and execute on delivering business value and competitive advantage. Capital markets experience with a wide range of responsibilities in global institutional fixed income asset management. Influential and collaborative with talent for achieving team alignment with company mission and objectives. Strategic thinker with strong skills in programming, modeling, data management, system architecture, and optimization.

Technology Leadership | Budgets & Planning | Complex Problem Solving | Cross-Functional Collaboration | Coaching / Mentoring  
Agile Methodology | Software Engineering | Application Development | Database Design | Data Science

## Professional Experience

**Western Asset Management, Pasadena, CA**

**2007-2019**

### Head of IT Common Services

Led and managed the IT Common Services group, including application delivery teams tasked with servicing their respective business units, as well as crosscutting teams servicing IT and other application delivery teams. Engaged business sponsors and department heads to develop a vision / roadmap, identify projects, and negotiate priority. Served as resource manager of 80, responsible for annual budget of \$15M+ and influenced an overall annual IT budget in excess of \$60M.

- Saved millions by achieving an industry leading level of automation for pre-trade compliance, resulting in lower failure rates and dramatically lower costs due to compliance exceptions. Replaced vendor portfolio compliance system with a more comprehensive, internally developed software solution.
- Boosted revenue by enabling the firm to win insurance mandates through integration of solvency functionality into the pre-trade compliance workflow.
- Developed formal *Enterprise Technical Architecture* program. Established and chaired *Technical Architecture Committee* with cross IT representation as decision-making body for technical architecture that improved management of innovation and technical debt, and documented standards.
- Introduced modern tools and championed best practices and architecture trends such as application security awareness, vulnerability scanning, Infrastructure as Code (IaC), DevOps, continuous integration and continuous delivery (CI/CD), static code analysis, code reviews, concurrency and scalability patterns, microservices, and containers, resulting in high quality solutions.
- Led agile transformation, resulting in greater customer engagement, frequent delivery of business value, ability to quickly respond to business needs and optimized rollout risk. Agile transformation involved training, coaching, reorganization, and maturity assessments.
- Co-developed cloud strategy, determining strategic vendors, establishing networking, completing cloud security assessment, installing a cloud threat defense solution, creating cloud migration assessment framework, adopting a cloud-first strategy for greenfield projects, and exploring cloud databases.
- Streamlined support experience, cut incident response times by 10 times, and lowered costs by completely automating production control monitoring and teleconference management. Established central application support team that worked alongside Help Desk to focus on level 1 and 2 support, reducing support burden of application delivery teams.
- Matured data architecture by leveraging data virtualization, cloud data warehousing, data lakes, and data science platform, enabled advanced artificial intelligence research. Saved days of unnecessary data pre-processing, helping risk management team efficiently run machine learning models.
- Introduced a Business Process Management (BPM) platform and developed client onboarding, termination, and account changes workflows, providing dashboards, process transparency, orchestration of complex inter-department processes, collaboration, escalation, SLA compliance, and continuous improvement platform.
- Created Client Account Reference System (CARS), a master-data-management system for portfolio data, that improved data quality, security, and provided web services for application integration.
- Doubled quality assurance capability and addressed key man risks without impacting costs by adopting a hybrid on-shore/off-shore model.

- Reviewed application portfolio and identified opportunities to replace non-strategic proprietary solution with COTS, resulting in less technical debt and reduction in total cost of ownership.

**Fischer Francis Trees & Watts (now [BNP Paribas Asset Management](#)), New York, NY****Chief Technology Officer****2005-2017**

Managed the Global Asset Management Technology Group. Oversaw system architecture, proprietary application development, integration projects, and support of key systems, including Portfolio Risk & Investment System Management (PRISM), the global accounting system (Geneva), data feeds, and database administration.

- Collaborated with senior management to continually improve systems, helping business to grow.
- Lowered operational risk by connecting PRISM to electronic trading systems using FIX 4.4 for automating front and back office functions (sending orders, receiving trade confirmations, and transmitting trade allocation breakdowns).
- Automated post-trade straight through processing of trade tickets, reducing back office resources and settlement risk and enhancing business scalability.
- Boosted productivity by automating data collection, report building, and leveraging data.
- Promoted best practices for software development and change control, including Domain-Driven Design, Test-Driven Development, and Continuous Integration, resulting in high quality, maintainable solutions.

**Additional Relevant Experience****Fischer Francis Trees & Watts (now [BNP Paribas Asset Management](#)), New York, NY****Head of Application Development**

Managed all aspects of proprietary application development and systems integration projects throughout the firm. Functioned as architect, project and product manager for PRISM, an internally developed global platform offering risk management, investment guideline compliance monitoring and enforcement, real-time trading tools with pre-trade compliance, straight through processing capabilities, performance attribution, GIPS performance reporting, and more.

**Senior Computer Systems Analyst**

Initial developer for new in-house development team, reporting to the CTO. Established foundation for PRISM project.

**[CoreLogic](#) (formerly GTE Enterprise Solutions, formerly MPR Teltech)****Team Lead**

Designed and developed industry leading software for the Real Estate industry. Acted as key designer for next generation of MLS software.

**Certifications & Professional Development**

**Certified ScrumMaster (CSM)**, Scrum Alliance, 2017

**OWASP Top 10 – Exploitation and Effective Safeguards**, OWASP Foundation, 2015

**Education**

**Bachelor of Applied Science (BAS)**, Computing Science, Simon Fraser University, Vancouver, BC, Canada

**Technical Skills**

**Languages:** Java, Scala, SQL, JavaScript, TypeScript, Python, Dart, Groovy, HTML5, CSS3, C, C++

**Platforms:** Docker, Linux, Windows, AWS, GCP

**Frameworks:** Flutter, React, ExtJS, Akka, Play, Spring, Hibernate, Material, Bootstrap, Serverless

**Data Management:** SQL Server, Oracle, Cloud Firestore, MongoDB, Denodo, Apache Spark, S3, Snowflake

**Tools:** GitHub, Jenkins, JIRA, Confluence, Artifactory, Apache Maven, Hashicorp Vault

**Architectures & Concepts:** Agile, DevOps, Scrum, Microservices, Twelve-Factor, Reactive, Progressive, Data-Centric