Daniel J. McGuire

Senior Financial Software Engineer & Data Analyst
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Senior Financial Software Engineer & Data Analyst with 20+ years of domain leadership in investment accounting platforms, enterprise data management, and client onboarding. Subject matter expert in finance application data modeling, cross-system data mapping, data quality, and cloud architectures (Azure, Snowflake). Proven track record of bridging client requirements with complex technical solutions, modernizing financial data architecture, and leveraging advanced analytics and AI/automation tools (Python, Cursor AI, SQL) to drive operational efficiency.

Experience

Financial Data Analyst / Software Engineering

08/2024 – Present

Dedham, MA

FundGuard

- Lead the design and execution of data mapping frameworks and target data architecture to ensure seamless data integration across enterprise finance applications.
- Partner closely with Product Managers, Data Engineers, and Data Architects to validate complex datasets, enforce data governance, and optimize data pipeline performance.
- Develop and implement scalable, real-world financial use cases and data models to enhance platform capability, data consistency, and reporting solutions.
- Collaborate on Proof of Concept (PoC) initiatives, onboard key client enterprise workflows, and ensure high quality and health across client production environments.
- Support modern AI and development workflows using Cursor AI and Python to automate data analysis tasks.
- Write and push production-level code (Java, JavaScript) to resolve software bugs, optimize reporting queries, and deliver targeted feature enhancements.
- Utilize modern AI-assisted development tools (Cursor AI) and Git version control to accelerate software debugging, refactor backend scripts, and maintain pipeline health.

Business Implementation Analyst / Project Delivery Specialist

03/2022 – 08/2024

Boston, MA

State Street / Deloitte

I worked on the SSGA and Nuveen Alpha Conversions both at State Street. In January 2023, a section of State Street employees were transitioned to Deloitte, but we still worked on the same projects. The SSGA project was focused on implementing a new performance product. The Nuveen project was converting Nuveen onto the State Street transaction processing platform.

- Led cross-functional onboarding and implementation lifecycles, translating business requirements into technical functional specifications and system architecture solutions.
- Conducted comprehensive gap analysis between legacy databases (SQL Server) and cloud environments (Snowflake) to ensure complete data integrity, standard compliance, and data quality.
- Designed and configured data interfaces and data share specifications for clients, ensuring secure and seamless data access for financial decision-making.
- Oversaw project implementation timelines, cost structures, and risk mitigation strategies while keeping key executive stakeholders aligned.
- Served as Subject Matter Expert in Snowflake database administration, querying, data sharing, and architecture configuration.

Senior Product Development Analyst

06/2015 – 12/2021

Wellesley, MA

Eagle Investment Systems

- Collaborated with Product Management and engineering teams to define functional requirements, technical specifications, and system enhancements for enterprise accounting platforms.
- Communicated project progress, deliverables, and timelines across global stakeholders and led weekly coordination across offshore development teams.
- Managed, maintained, and automated 1,000+ daily regression test cases utilizing Jenkins, JavaScript, and SQL to ensure software reliability.

- Reviewed and approved junior developer code (SQL, Java) on GitHub and edited database tables/schema to accommodate core functional enhancements.
- Conducted client-facing platform demonstrations and delivered training sessions across internal teams for major software updates.

Product Development Analyst 11/2010 – 05/2015

Eagle Investment Systems Wellesley, MA

- Partnered with QA teams to author functional documentation, user guides, and test plans for software releases and system integrations.
- Enhanced core platform engines (STAR) to process intraday, capital, and income NAV allocations across diverse asset classes.
- Reviewed C++ code for system integrations (NASDAQ module) and utilized Unix and Win Merge to deploy code fixes across dev, QA, and production environments.

Lead Supervisor – Client Service Group, Fund Accounting 03/2006 – 10/2010

Brown Brothers Harriman Boston, MA

- Managed daily accounting operations, risk escalations, and client deliverables using STAR accounting platforms.
- Processed complex derivatives and trades including IRS/CDS swaps, futures, options, and fixed income instruments.

Senior Fund Accountant 06/2002 – 07/2004

State Street Bank and Trust Westwood, MA

- Supervised fund accounting staff, auditing daily valuation pricing and developing automated Visual Basic macros to boost workflow efficiency.

Education

Master of Business Administration (MBA)

Southern New Hampshire University Manchester, NH

Bachelor of Science (BS) in Finance

University of Massachusetts – Dartmouth Dartmouth, MA

Skills

Enterprise Data Management, Data Governance, Data Quality, Financial Modeling (P&L, NAV, Position & Cash Reconciliation, Cash Flow, Benchmarki, Master Data Management, Common Information Models, FundGuard, Eagle STAR / PACE, Snowflake, Azure DevOps, Cloud Data Architecture, Investment Accounting, Multi-Asset Operations, Python, Java, IntelliJ, SQL, Cursor AI, Google Gemini, Claude, Machine Learning Integration, Jenkins, GitHub, Jira, Docker, Kafka, Data Mapping & ER Diagrams, Business Requirement Gathering, System Architecture Design, UAT, Stakeholder Management, Agile Methodology, Cross-Functional Leadership, Cassandra, Project Management