Warren McPhillips

245 East 93rd Street

New York, NY 10128

warren.mcphillips@gmail.com

Phone: (212) 457-0194

WORK EXPERIENCE

Cravath, Swaine & Moore, LLP — New York, NY

Business Intelligence Developer & Data Engineer — March 2020 – Present

- Lead developer and product owner for new data warehousing serving as a source of truth. The system is designed to operate in a real-time, distributed, fault-tolerant manner; utilizing SQL Server Message Broker, and transactional replication, providing push-based eventing of Thompson Reuters 3E, Intapp Time, and Operational data. The system is designed to operate under a hybrid on-premise/Azure cloud configuration.
- Developed tooling and core business data objects to make the team more efficient. Authored coding style documentation and implemented standard practices for the team and consultants to include code review, code versioning, CI/CD using MS DevOps.
- Developed standards to pass routine vulnerability, penetration and security testing for an audit in both cloud and on-premise environments.
- Managed Interns, including training, development, planning, working on real enterprise projects, and third-party integrations.
- Launched Data Dictionary initiative to help track data origin and flow, metadata and domain-specific LLM/MCP model training, data governance and data quality.
- Applications/Tools developed
  - An A.I. powered, semantic search application to support natural language search for iManage and operational data within SQL Server. Embeddings and vector search are performed in SQL Server in a near real-time manner via message broker and in-house-developed CLR assemblies.
  - SQL CLR C# library that extends SQL Server to inter-op with Active Directory, iManage, Redis, Elastic Search, with functionality that allows for advanced pattern matching, HTTP, and ML capabilities.

Abracus, LLC — New York, NY

Managing Member — October 2018 – March 2020

- Provided Consulting, Development, Advisement, SaaS, and other IT services for financial services clients.
  - **Morgan Stanley**
    - Developed Modern Platform trading system back end that is used by Financial Advisor's and internal departments. The platform was a migration from DB2 to MS SQL Server. Critical components of the real-time order state and order persistence management include high speed search via recursive CTE's, performance tuning to provide sub-second performance.
    - Introduced and lead initiative to implement agile, CI/CD using Atlassian DevOps stack.
  - **Galaxy Digital Capital Management - (Startup)**
    - Developed a data pipeline using Amazon (AWS RDS) and PostgreSQL for firm's crypto exchange and execution platform.
    - Built the CI/CD for all environments from development to production using Liquibase. This includes necessary access and data controls built using Boto3 with a React web interface.
- Alternative Data Speaker/Presenter at various NYC technology events: AITEC, Augvest.

MKP Capital Management, LLC — New York, NY

Vice President, Application Development — March 2007 – August 2018

- Developed and maintained straight-through processing (STP) between OMS (Charles River), back-office accounting, various prime brokers and fund administrators, risk, fund and investor accounting systems. Developed ETL pipeline for all of the firms incoming and outgoing PB and Fund Admin feeds: Citco, Globe-Op, SEI, NAV Consulting, and HedgeServ. Data ingestion of semi-structured and unstructured data (email and plain text files) is parsed, and validated using SSIS, Python, and C#. All ETL processes designed to be idempotent.
  - Virtually all aspects of trade and data workflows were automated and streamlined.
  - ETL/ELT processes were built using SQL Server SSIS, with Tableau for reporting.
- DBA with respect to SSAE16, GDPR and other regulatory standards. Change management, query tuning and BRP
- Architect of a distributed, fault-tolerant data backbone for real-time analytics for various systems. Technology consists of Elasticsearch/Kibana/Logstash using SQL Server replication. The data warehouse and back-end serviced the NY, London and Singapore offices.
- Developed firm's investor accounting system that generated lot level pro-rata, monthly P&L to investors. The application is utilized by Operations, Accounting, Client Services and Legal departments. The system was designed using C#/.Net.

- Mentored and trained junior developers on technology and security products: CRE, MBS, fixed income, Credit derivatives, etc.
- Supervised Interns.

BUSINESS INTELLIGENCE	DATABASES	LANGUAGES
SSIS, SSAS, SSRS, Tableau, Power BI, Kibana/ELK, Power Automate, Boomi	SQL Server, PostgreSQL, Influx Db, Redis, Elasticsearch, Azure SQL, DB2	C#, Python, T-SQL/PL-SQL, F#, PHP, VBA
INFRASTRUCTURE	PROJECTS	OPERATING SYSTEMS
IBM Cloud, AWS, Google Cloud, Azure, Kafka	https://abracus.net/projects	Windows/Server, Linux (Debian, Ubuntu), Mac OSX, Unix (Free BSD)

EDUCATION

Georgia Southwestern State University, MS Computer Science   Americus, GA

Graduate Thesis: Integrated Photonics For Use In Higher State Quantum Networks