

V L A D I M I R B E Y D E R

PRINCETON NJ, 08540

732-857-4584 | VBeyder@comcast.net | [LinkedIn URL](#)

DATABASE DEVELOPER, SYSTEMS AND DATA ARCHITECT, DEV LEAD

Highly accomplished application developer and tech lead with extensive technical and business expertise. Reliably spur evolution of products and services delivered to IT Clients, while meeting the challenges of distributed multicultural teams, timelines, and resource availability. Hands-on. Proficient in system design and development, with emphasis on building solid and robust implementations through a strong foundation in data technologies. Have a proven record of delivering applications in a variety of fields. Combine analytical thinking, with ability to clearly define, document and communicate design solutions that accommodate future objectives while delivering near term results. Work effectively as a lead, team member or individual contributor in analyst, architect and developer roles. Multilingual in English and Russian.

CORE COMPETENCIES & TECHNICAL PROFICIENCIES:

- Application and Data Architecture, Application Data Base development and database administration (DBA)
- Systems integration, ETL/ELT, Data warehousing (DW), Data governance
- Business analysis and requirements
- Data Modeling: entity relational, anchor, current, temporal, bi-temporal, graph
- Multiple SQL and NoSQL on-premise and cloud databases, Multiple programming languages
- Full SDLC in Waterfall, Agile Scrum, Kanban
- Alternative investments, Real Estate (RE) and Private Equity (PE) fund accounting and calculations

SYSTEMS, APPLICATIONS & TOOLS

Databases:	Oracle, Sybase, Microsoft SQL Server, Ingres, MS Access; Exposure to MongoDB, PostgreSQL, AWS Redshift, AWS DynamoDb, Snowflake
Cloud technologies:	AWS: S3 storage, EC2, DynamoDb, Lambdas & Step Functions
Data Modeling:	Erwin, ER-Studio, Unified Modeling Language (UML)
DW, BI and ETL/ELT:	ALTERYX, SNOWFLAKE, Golden Gate, SSIS, DATA STAGE, INFORMatica
Languages and Tools:	SQL, PL/SQL, T-SQL, UNIX Shell, Python, Java Script, C/C++, Java, Visual Basic; HTML, XML, Git/GitHub, ClearCase, and Perforce

PROFESSIONAL EXPERIENCE

STATE STREET, Princeton, NJ

5/2022 – present

Vice President, Lead Developer, SME.

Lead developer on strategic re-tooling project for the Real Estate Fund Accounting Calculation System for a Major Client:

- Achieved better modularization of the code by defining standards for module and data flow structures of the Calculation Workflows using Alteryx macros with the goal of compatibility and re-usability of modules.
- Implemented Unfunded Commitment module and feed to Investor Correspondence module (PL/SQL, Investran, T-SQL, Alteryx) for Draw Down calculation.
- Documented analysis of Distributions, Contributions, NAV and FEE calculations resulted in the proper decomposition into reusable modules for Alteryx implementation.
- Designed a database to support business process around the Alteryx Calculation Workflows and future feeds to SSCD.
- Participated in a continuous support and enhancement of the DHUB – State Street back-office trade settlement, reconciliation, valuation and accounting system.

Dev Lead – Consultant

Led a team of data engineers in implementation of a data flows to deliver data from the company's Fee Calculation Revenue and Billing System (Revport) to a major Client. The ELT flows were configured within in-house server-less pipeline framework using in AWS.

Delivered to the Client in time within budget.

- Enhanced performance of the Extractions step of ELT by structuring processing in Shell Script cutting execution time from ~20 to less than 3 hours.
- Delivered custom pipeline components and enhancements:
 - AWS Redshift SQL scripts and stored procedures executed within the framework (Glue, Step Functions),
 - Shell Scripts wrappers (EC2, Bash, CLI) to accommodate the pipeline's server-dependent touch points,
 - Redshift custom user-defined function (Python, Lambda) to augment Redshift, and to communicate via events with other systems/flows/steps/ touch points,
 - Monitoring, notifications and metadata reporting shell scripts pipeline (Bash, EC2, DYNAMO DB CLI).
- Effectively served as liaison with upstream and downstream teams, with BA, QA and DEVOPS teams, and participated in status reporting to senior management.
- Organized development process of the team by embracing Agile Kanban principles (though not a formal Scrum)
 - Maintained JIRA Kanban board of the tasks/stories and GIT repository for the components and documentation.
 - Conducted daily stand-ups.

STATE STREET, Princeton, NJ**2/2012 – 4/2021****Vice President****System and Data Architect, Lead Developer, SME.****11/2018 - 4/2021**

Work on technical solutions for private equity (PE) and real assets (RA) data integration and data warehousing within company's enterprise-wide data service platform (ESP).

- Increased efficiency of data consumption by using ESP 's asynchronous and parallel processing features:
 - Enhanced SSIS packages and corresponding MS SQL extract stored procedures ensuring that multi-million records INVESTTRAN feed files were partitioned and split into manageable chunks of ~ 1m each.
 - Revamped PE INVESTTRAN incoming files consumption processing UNIX shell script, ensuring chronological order of chunk files processing, effective error condition handling, and efficient notifications.
 - Stabilized performance by monitoring and maintaining physical layer (indexes, partitions) Oracle ESP tables.
- Produced ESP tables structures and transformations (Oracle, Sybase, MS SQL, Golden Gate, SSIS, file transfer, direct DB connection, Linked Server, etc.) for PE and RA data extraction from internal systems, ESP consumption, and delivery in a holistic integrated form to the business and diverse groups of clients
- Improved performance and reduced downtime of PE ESP DB table data cleanup process by trimming AS-AT bi-temporal dimension using Oracle partition swap functionality..
 - Suggested, tested the approach, and coded PL/SQL script
 - Delivered to Prod Support team for use.
- Implemented an ESP data flows and feeds for real assets (RA) trial balance report that included:
 - Replication from RA core DW to the staging Sybase environment using Data Stage
 - Golden Gate feed from staging to ESP subject area categories and marts
 - ESP IRD reporting.

2/2012 – 11/2018

Enhanced and maintained the RA and PE fund Accounting Calculations Platform handling multiple funds performing complex limited partnership agreement (LPA) investor-level calculations, including European (by fund) and American (by Investment) style Waterfall calculations with large volumes of detail transactional data.

- Successfully delivered the system interoperability and integration functionality of the subsystems (GUI, calculation engine, operational data store, reference data base, and reporting data warehouse)
 - Provided consistent and coordinated design solutions for the database layer of all components

- Led a team of onsite, offsite and offshore resources and was a hands-on participant in all development.
- Achieved accuracy and near-real time data delivery to the DW for review and reporting, and downstream fund-level ledger and investor services subsystems. Responsible for all aspects of the DW subsystem including:
 - ETL of the calculation results and dimension changes
 - Integration with BI and other downstream system.
 - Escalated production support, maintenance, data governance, application-level DB administration
- Authored, designed, led the team in developing, coding and, implementation, and rolled out a new Calculation Engine Subsystem (Oracle, PL/SQL, XML, JBOSS, Micro Services, JAVA, and Python) which provided
 - Significant flexibility while reducing the amount of new coding required
 - Enhanced reusability of components and simplified implementations of client-specific waterfall calculations
 - Reduced time required to on-board new clients or modify the calculations

MORGAN STANLEY, New York, NY

01/1999 – 2/2012

Senior Technical Lead and Architect

Principal architect of the Real Estate Funds Accounting Calculations and Reporting System. Provided Morgan Stanley (MS) controllers with an investor-level sub ledger, analytical and calculation tool for the MSREF (currently – Northern Star) family of funds.

- Co-authored and patented the technology which was a key intellectual property asset acquired by State Street as part of the function transfer from Morgan Stanley, including the Fund Accounting Calculations System.
- With minimal resources (three to six people) led initial development and then scaled up the system, processing and support to a total of nine domestic and international funds, with ever increasing functionality, complexity of algorithms, and volumes of data (SYBASE, T-SQL, C++, Excel, VB).
- Ensured stability, continuity, and consistency of the implementation through subsequent re-engineering (Oracle, PL/SQL, Oracle Loader, shell scripting Oracle Scheduler) and lift-and-shift to State Street.
- Collaborated with users in defining and formalizing evolving user and system requirements.

Other:

EXEL Reinsurance, Bermuda; MetLife, NJ; Republic National Bank, NY; Sandata Technologies, NY;

EDUCATION

Master of Science, Computer Science, minor in Applied Mathematics, with honors, GUBKIN RUSSIAN STATE UNIVERSITY OF OIL AND GAS, USSR



Detailed version of the resume can be found here: [Patent, Recent Trainings and Certifications](#)