VLADIMIR BEYDER

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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. Passionate about system design and development, with emphasis on building solid and robust implementations through a strong foundation in backend and data technologies. Have a proven record of delivering applications in a variety of fields, working effectively as a lead, team member or individual contributor. Multilingual in English and Russian.

CORE COMPETENCIES & TECHNICAL PROFICIENCIES:

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- Application and data architect
- Application database administrator (DBA)
- Agile Scrum, Kanban, Waterfall and full SDLC
- Multiple programming languages
- Data Modeling: entity relational, anchor, current, temporal, bi-temporal, graph
- Application and Backend DB developer
- Multiple SQL and NoSQL database vendors

- Data warehousing (DW)
- Data governance
- Systems integration, ETL/ELT
- Business analysis and requirements
- 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.

BROADRIDGE, Jersey City, NJ   **5/2021 – 5/2022**
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 implemented in AWS.
Delivered to the Client in time within budget.

- Enhanced performance of the Extractions step of ELT by structuring processing in parallel 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 by embracing Agile Kanban principles (though not a formal Scrum) and JIRA Kanban board of the team tasks/stories, and conducting daily stand-ups. Responsible for GIT repository for the project components and technical documentation.

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

11/2018 - 4/2021
Implemented data strategy solution for private equity (PE) and real assets (RA) data integration and data warehousing within company's enterprise-wide data service platform (ESP). Designed and implemented ESP structures, objects, and transformations. Ensured data was fed from fund accounting, portfolio management, general ledger, and other internal systems, then integrated, transformed, enhanced, and delivered or presented in a holistic unified view to the business and diverse groups of clients (Oracle, Sybase, MS SQL, Golden Gate, SSIS, file transfer, direct DB connection, Linked Server, etc.) Monitored and maintained physical layer (indexes, partitions) to enhance performance.

- 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 INVESTRAN feed files were partitioned and split into manageable chunks of ~ 1m each.
  – Revamped PE INVESTRAN incoming files consumption processing UNIX shell script, ensuring chronological order of chunk files processing, effective error condition handling, and efficient notifications.
- Improved performance and reduced downtime of data warehouse PE ESP DB table data cleanup process. Suggested, tested the approach, and implemented PL/SQL script for trimming AS-AT bi-temporal dimension using Oracle partition swap functionality.
- Implemented an ESP data flow and feeds for real assets (RA) trial balance report that included replication from RA core DW to the staging Sybase environment, Golden Gate feed to ESP, ESP subject area categories and marts, and 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. Led a team of onsite, offsite and offshore developers.
- Ensured successful implementation of the system and interoperability and integration of the component subsystems by providing consistent and coordinated design solutions for the database layer across all subsystems (GUI, calculation

engine, operational data store, reference data, and reporting data warehouse). Led and was a hands-on participant in all development.

- Ensured accuracy and near-real time delivery of calculation results and dimension changes to the data warehouse for review and reporting, and delivery to fund-level ledger and investor services subsystems. Responsible for all aspects of the DW subsystem including escalated production support, maintenance, data administration and integration with BI subsystem.
- Led team in design, implementation, and rolling out a new Calculation Engine Subsystem (Oracle, PL/SQL, XML, JBOSS, Micro Services, JAVA, and Python) which provided the system with significant flexibility while reducing the amount of new coding required. This greatly enhanced reusability of components and simplified implementations of client-specific waterfall calculations. The platform reduced the time required to on-board new clients or modify the calculations significantly.

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. Led a team of onshore and offshore developers in all tech aspects of the system development and maintenance, re-engineering, enhancements, and prod support.

- 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) initially developed 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. Collaborated with users to define, discuss, and formalize evolving user and system requirements.
- Ensured stability, continuity, and consistency of the implementation through initial development (SYBASE, T-SQL, C++, Excel, VB) and subsequent re-engineering (Oracle, PL/SQL, Oracle Loader, shell scripting Oracle Scheduler) and lift-and-shift to State Street.

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**