



Solution Architect – Banking

Qualifications:

• Banking Domain Solution Architecture & Design	3 years
• Telecom Domain Solution Architecture & Design	10 years
• JEE Design Patterns, 4+1RUP, OOD, OOP, UML	10 years
• Event Driven Architecture & Integration: Kafka	2 years
• Mobile Frameworks & Integration: BackBase, Malauzai	2 years
• API Microservices Design & Integration	2 years
• Core Banking API Frameworks: Finxact, Savana, Finastra, BackBase	1 year
• Portals: Insurance/ Banking/ Gaming/ Government/ Supply Chain/ Telecom/ E-Commerce	5 years
• Data Layer: RDMS, Entity/ Data Modeling, SparX EA/Erwin DB modeling	
• Master's Degree in Computer Science, Advanced Software Systems, Bilingual	
• Solution Architect, Designing, Re-factoring & Performance Tuning Enterprise Apps	10 years

Experience:

Technical Architecture Delivery Manager	ACCENTURE - Technology Architecture - Toronto, Mar 2021 – present
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Accenture is a leading Global Professional Services company, providing a broad range of services and solutions in strategy, consulting, digital, technology and operations. Accenture works at the intersection of Business and Technology to help clients improve their performance and create sustainable value for their stakeholders.

Solution Architect – National Bank of Canada, Montreal - Mar 2022 – Aug 2022

- Card Domain – Transaction Processor: E2E Solution Architecture, Business & Technical Diagrams
- Card Domain – CCIA: Infrared, CCIA SAFEID v2, UMA rewrite, CCIA Architecture RoadMap
- Card Domain – CCIA: E2E Solution Architecture, Detailed Design & Interface specifications

API Integration Architect – Silicon Valley Bank, San Jose, CA - Oct 2021 – Dec 2021

- Architecture, E2E Solution, Detailed Design & Interface specifications - HR Lexonis API Integration Project
- Microservices REST API Design, Event Driven, APIGEE, Async API & Kafka, REST APIs Integration

Functional Designer – CN, Montreal - Apr 2021 – Sep 2021

- Digital Mobile Kinvey API Integration, API Microservices Integration, Kafka Event Driven Integration
- Solution Architecture, Functional Design Requirements & Blueprint, Detailed Design Solutioning

EBanking API Developer – CIBC / Simplii Financial, Toronto - Oct 2020 – Mar 2021

- Digital Mobile Banking API, Microservices API Integration, HL Solution Design & Detailed Design

Integration Lead – Finastra CORE Banking, Toronto - May 2020 – Oct 2020

- Digital Mobile Banking API & Integration, CORE Banking API & Integration, Malauzai Digital Integration Audit, Enhancements & RoadMap, Finastra CORE API Banking integration

Microservices Integration Developer – Finxact Core Banking, Toronto, Feb 2020 – May 2020

- BackBase Mobile Banking API & Integration, Finxact CORE Banking API & Integration, Savana CRM API integration

Technical Architecture Manager

ACCENTURE - Technology Banking - Toronto, Feb 2019 – Mar 2021

TD Bank | OBS Deposits - One Billing System Phase 2 | OBS Strategic Billing, Solution Architect – Feb 2019 – Oct 2019

- Designed OBS Performance tuning strategy for Transaction Processing & Billing Processing batch jobs
- Designed OBS Archiving & Purging Solution
- Designed Calendar OBS Batch jobs & tasks batch processors, designed batch processing strategy
- Designed Autosys integration with OBS Batch Processing framework
- Designed EDPP Data Integration with OBS Staging schema
- Created OBS Target State System Architecture Diagram and map JIRA Epics & Stories to associated 4 Agile PODs; update all TD OBS Confluence Architecture diagrams related to OBS Deposits (Phase 2)
- Creates and solution-ed all POD5 Technical Architecture stories; work with OBS Business Architect and Solution Architect to get closure on all Deposits Architecture stories
- Link all Architecture POD5 stories to Developments PODs stories; created specification for Development PODs; clarified & presented the specific solution to all development teams; approved the low-level design
- Architecture session presentations to get sign off from various TD Bank OBS Stakeholders
- Assisted TD Solution Architect & validated GTAC & ARB OBS Phase 2 Architecture Presentation deck
- Refactored and Decomposed the Day 5 Billing Processing Job

TD Bank | OBS-TIL EDPP Data Ingestion– Customer 360, Solution Architect – Feb 2019 – Aug 2019

Feb 2019 – Apr 2019 - HL estimates OBS-TIL, Project Initiation, Project rollout decks, Presenting OBS-TIL Technical solution, getting buy in from TD Business and EDPP stakeholders

May 2019 – Aug 2019

- Designed OBS-TIL Data ingestion solution, designed integration with TD Autosys, designed OBS-TIL Data Ingestion Oracle Export & Oracle Import triggering and processing & sync with OBS Batch jobs; designed integration with EDDP Sqoop Import triggering and Data Extraction
- Technical Solution presentations with Business, EDPP & OBS teams; define final Architectural solution
- Created & solution-ed all POD5 Technical Architecture stories; worked with Business Architect, EDPP Architect, OBS Solution Architect to get alignment & closure on all OBS-TIL Data Ingestion Architecture stories
- Linked all Architecture POD5 OBS-TIL Data Ingestion stories to all Data Ingestion Developments POD stories; document solution for Development POD; clarified & presented the specific solution to TIL development team; approve development POD the low-level design to align to overall OBS and OBS-TIL architecture
- Created TD OBS-TIL Data Ingestion Confluence Architecture documentation & diagrams
- Created TD OBS-TIL Data Ingestion Operational and Failover procedures & documentation
- Extracted ER Data Model diagrams for all schemas and presented the ER Model to EDPP team
- Presented & Trained EDPP team on Jasper Designer ETL Tool
- OBS Data flows and Architecture Integration presentation for EDPP & OBS teams

Senior Technical Architect	ZAFIN Global Delivery - Toronto, Mar 2017 – Feb 2019 - permanent
	Java7, JEE, JBoss, Spring, Hibernate, Eclipse, GWT, Oracle, SparX EA, Maven, JUnit, Liquibase, Git, Bitbucket, JIRA, Hazelcast, Dynatrace, SaaS, Cloud, JSON API, OAuth, Confluence, Azure, Splunk

ZAFIN is a provider of Relationship Banking Software, a Global leader in Product & Pricing Technology Solutions for Banking Industry. miRevenue G4 Product is Zafin's flagship JEE product consisting of: Price and Product Management, Billing and Cash Management platform, Product Catalog, Offer Management, Customer Management & various other Banking products/ components.

- Coordinated Delivery Architecture Practice, Technical Architecture Standards & Delivery Best practices Reviewed, Refactored & provided performance / operational enhancements for the following G4 miRevenue implementations: Bank of The West, TD, CIBC, Barclays, CMIB, NedBank, BPI
- miRevenue G4 SaaS AZURE Cloud Solution Design for CIBC & TD

Barclays Bank - Strategic Billing - Retail Banking, Jun 2018 – Aug 2018

- Reviewed HW Infrastructure / configuration - number of batch nodes, Java Max heap per each batch node process), setup proper Batch cluster performance / infrastructure parameters settings | worker threads, work chunk size, DB commit size, provided integrated solution for batch jobs, DB performance tune strategy, refactoring components
- Created UML diagrams: Infrastructure, Target Model Architecture, Data Flows Architecture
- Updated Architecture and Detailed Design Specification to reflect existing and new refactoring solutions
- Reviewed HL design and solution and provided refactoring and Operational Enhancements

NedBank - Enterprise Billing Engine - Retail Banking, May 2018 – Jun 2018

- Created UML diagrams: Infrastructure, System Architecture, Data Flows Architecture
- Created NedBank Solution Architecture Document from various technical documentation
- Reviewed design and solution and provided and Operational Enhancements

BPI - Bank of Philippines Islands - Pricing and Billing - Retail Banking, May 2018 – Jun 2018

- Created UML diagrams: Infrastructure, System, Target Model Architecture, Data Flows Architecture
- Created the BPI Performance Testing strategy, including capacity and infrastructure assessment
- Reviewed design and solution and designed and Operational Enhancements

CMIB - Bank of Malaysia - Niaga - CISC Integration with miRevenue - Retail Banking, May 2018 – Jun 2018

- Reviewed design and solution and provided operational enhancements
- Review the system capacity and performance tuning parameters
- Created the Batch billing Performance tuning and testing strategy

TD Bank - OBS Deposits (One Billing System Phase 2) – OBS Strategic Billing, Feb 2018 – Feb 2019

- TD Deposits CORE & Implementation layer Operational enhancements – design & coordination
- Operational plan to allow parallel development for Deposits & TD CMS OBS Production fixes
- SAD Phase 2 – Architectural solutions – *UML System Context Diagram Phase 1 versus Phase 2, UML Application Context Diagram – “as is” Phase 1, “to be” Phase 2, UML Architecture Model Diagram*
- SCRUM Architectural Pod, together with TD Solution Designers, TD Solution Architect, TD Application Architect and TD Technical Lead. I am responsible with E2E SAD
- Coordinating DEPOSITS SCRUM, Security SCRUM, CIF SCRUM team, EDPP SCRUM team, CIPS Scrum
- Solution to migrate Customer Link from Web services to JSON API; Integration with TD Federated Server
- Interest Rate Engine Calculation solution for CIPS replacement; created HL Demo, Detailed assessment analysis
- Solution for Deposits Data model and TD EDPP to miRevenue staging integration
- Solution the SaaS Cloud Billing and Pricing strategy for TD OBS, created the Road Map, PPT Demo, Technical Diagrams for TD Cloud SaaS (Azure) migration
- Designed Single Billing Platform for CMS, Deposits Accounts, TD Securities, TD Mortgages, TD Credit Interest
- Various solutions & enhancements to support scalability: design to have LOB independent processing, design & solution separate Batch cluster MW to have separate LOB Batch Cluster processing – independently

TD Bank - Precision Pricing Project - Retail Banking, Mar 2017 - May 2017

- Managed the technical/ design/ architecture/ development aspects for Z5 RPE - *Precision Pricing. Project team: 2 Developers onsite, 3 CORE Developers, 2 BA onsite, 2 QA Testers onsite, 1 Business Architect, 1 PM*
- Designed Precision Pricing project solution in 3 stages – *UML use cases, Architectural diagrams, Component Design, Design PP Integration solution, presented Architecture ABP/ SAD to ARB/ ABS/ Architects, Project stakeholders*
- Solution Design, HLD, Detailed Design, FRD/ ISD build
- Setup Oracle VM for Development and BA; setup ZRPE Cloud Development environment
- Coordinated ZRPE CORE available interfaces specifications & Core interfaces Roadmap

CIBC - myClient – Pricing and Billing- Business Banking, Feb 2018 – Mar 2018

- Refactored & redesigned myClient. This is the CIBC project refactoring in order to move the G4 miRevenue application to a Zafin Cloud infrastructure and apply significant Operational enhancements - Batch Framework, Scheduling, Performance, Integration, Operational requirements, Console & UI Enhancements
- Created the new Solution Architecture Document for CIBC myClient Pricing and Billing Application – extracted all ER Data Models per each application domain and all Java Entity Class diagrams
 - *UML System Context Diagram, UML Application Context Diagram*

- *Functional Components Diagram, miRevenue Application Components Diagram, Infrastructure Diagram*
- Updated all architecture and design documents to be presented to the CIBC Architects and CIBC Developers
- Reviewed the SaaS Cloud strategy for CIBC projects

TD Bank – TD Cash Management Systems | One Billing System - CSM Phase 1, May 2017 - Feb 2018

- Technical/ design/ architecture/ development aspects for *TD OBS - One Billing System, Corporate Billing*.
Project team: 10 Developers onsite/ 20 Developers offshore, 3 BA onsite/ 3 BAs offshore, 5 QA Testers onsite/ 10 QA Testers offshore, 1 Business Architect, 1 G4 Product Architect offshore, 1 Technical Architect offshore, 1 Project Manager, Delivery Director
- Creating & presenting Architectural reviews documents, Architecture Road Maps, Project Updates, Solution Design review sessions, Enhancements Solution Presentations, Critical Project Enhancements Updates
- Designed, architected, refactored, configured & performance tuned the CMS - OBS miRevenue system
- Design, Redesign & Refactoring:
 - *TD Autosys Scheduler – miRevenue integration*
 - *TD Autosys Scheduler – i-Hub, miRevenue, miRevenue adjustments - design jobs groups, setup groups dependencies, refine to 9 calendar day streams (miRevenue job groups per each calendar day)*
 - *miRevenue batch triggering redesign “all or nothing”, redesign TD Autosys groups*
 - *TD Tivoli Enterprise Monitoring integration; setup miRevenue DB API integration and integration solution*
 - *BI Jasper Reporting to miRevenue integration, Jasper reporting decoupling/ timeout solution*
 - *Properly redesigned the Integration control table between miRevenue and Jasper canned reports extraction*
 - *Day 5 “Billing run” - XML Statement generation Redesign, EBX – MFT File transfer solution*
 - *Enhanced the OBS DB – i-Hub ETL Batch staging to miRevenue integration and control tables*
 - *Aligned the solution to load Hazelcast distributed catch for all miRevenue Batch tasks*
 - *Scanned and reviewed the entire source code and implementation level task for multithread synchronization issues; aligned incorrect implementation and correct various design level defects*
 - *Design miRevenue Archive & Purging strategy – presented the strategy and aligned with TD requirements*
 - *Design the SSO integration – miSite LDAP control setup, tuned the SSO setup, configured Jasper Reporting SSO*
- Designed 20+ G4 miRevenue operational enhancements - UI Exception Management, Errors enrichment, Oracle Wallet integration, SSO LDAP integration, Jasper Reporting Real time launch enhancements
- Redesigned & refactored Day 5 “Billing Run” Statements XML Generation job and tasks; redesign the granularity for Day 5 “Billing Run” jobs and tasks. Redesign the Day 0 – Data Migration – modules, redesign various batch job modules, performance enhancements redesign for Day 3 “Pricing Run”
- Implemented the Performance tuning strategy for entire miRevenue system:
Backend jobs/ task implementation code, apply distributed application cache to batch tasks, tune the JBoss parameters, tune the miRevenue performance tune parameters – work chunk size, max worker threads, Hazelcast max threads, JBoss DB pools, Oracle DB sessions, Oracle DB RAM, performance tune the various core SQL queries to use “parallelize” multi core capability processing, setup gather schema/ tables statistics, review indexes etc.
- Analyzed/ solved DB deadlock and DB row lock conditions and setup strategies to avoid DB deadlock, coordinate with CORE team to promote CORE defect fixes, designed and coordinated with Implementation onsite/ offshore team to deliver the agile fixes, setup the scope and defects for all fixes, coordinated the Core & implementation fixes
- Coordinated with TD Solution Architect to all major architectural related issues and fixes starting Sep 2017
- Setup Weekly Architectural team meeting with entire ZAFIN TD project team
- Documented the TD CMS miRevenue Operational Manual in Confluence; deliver to TD stakeholders
- Coordinated TA Interview guide; interviewed TA candidates - Aug-Sep-Oct 2017
- Worked with Software Engineering Manager and interviewed SE candidates
- 10 UML diagrams - Architectural work repository for TD- Prevision Pricing; create the Solution Architecture Document; presented the SAD for review with TD Solution Architect (SparX Enterprise Architect)
- 40 UML diagrams - Architectural work repository for TD CMS One Billing System (SparX Enterprise Architect) extracted and documented in HTML format and published in Confluence Zafin’ documentation:
 - *UML System Context/ Application Context Diagram/ Conceptual Application Architecture Diagram*
 - *Functional Components Diagram, miRevenue Application Components Diagram, Infrastructure Diagram*
 - *UML Sequence Diagram for TD Autosys Scheduler design and jobs triggering*
 - *UML Sequence Diagram for miRevenue job staging “All or nothing”*

- UML Sequence Diagram for TD Tivoli Monitoring integration Scheduler Design and Jobs triggering
- UML System Diagram for Day 5- Statement generation XML Redesign solution
- UML Sequence tasks System for Day 5 Billing run- Statement generation XML Redesign solution
- UML Infrastructure Diagram, UML DR Infrastructure Diagram
- Created 20 MICORE core defects and tracked directly with miRevenue G4 Product Architect on exact solution; planned the CORE G4 build versus the incremental build releases.
- Coordinated and presented to TD Architects: 3+ Architectural Sessions (Apr-May-Jun), 4 Job Framework Architecture sessions (Oct-Nov-Dec-Jan)
- Created the KT & Transfer strategy for TD CMS; performed 3+ Architecture KT sessions to TD Architects

Bank of West – miRevenue - Mar 2017 - Jun 2017

- Implemented a technical plan to allow 12 months old production issue on BOW account, where the GL report was not completing due to huge Transaction table (6 billion rows), growing 2 million transactions / per day.
- Coordinated the solution in 45 days with Zafin Delivery Director, Zafin Support PM, ZAFIN DBA, 2 Zafin Developers and 2 BOW DBAs, BOW PM, 2 BOW Developers

Education:	<ul style="list-style-type: none"> ▪ Master's Degree in Computer Science, Bucharest, Romania Polytechnic University of Bucharest - Automation & Computers Faculty Advanced Software Control and Automation Systems 																																																						
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