SORIN ALEXANDRU ILIE
https://www.linkedin.com/in/alex-ilie-27775928/

sorin.alex.ilie@gmail.com
416-877-1724

Senior Solutions Architect

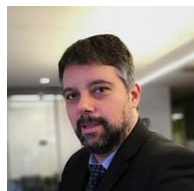|	
• Financial Services Solution Architecture & Design	7+ years
• Technical & Solution Architecture, Designing, Re-factoring Enterprise Applications	10+ years
• API Design & Integration, Event Driven Architecture, Design & Cloud Patterns	10+ years
• Data Architecture & Modeling, TOGAF Metadata & Metamodel, SparX EA/ VISIO	5+ years
• API Design & Integration, Event Driven Patterns, Integration Patterns, Cloud Patterns	10+ years

Technologies:

• Design Patterns • Architectural Patterns • GoF Patterns	Orchestration, Mediator, Dispatch | MVC, Front/ App Controller, Context, DAO, VO *Behavioral*: Strategy, Command, Iterator, Observer *Creational*: Factory, Abstract Factory, Singleton *Structural*: Facade, Proxy, Adapter, Composite, Decorator
• Architecture Frameworks	TOGAF, Zachman Framework, Zapthink Layer 7, EAI
• Technologies	OOD, OOP, UML, SOA, .Net, JEE, MDA, ITIL, SDLC, RUP4+1 DDD
• UML Modeling/ IDE	SparX Enterprise Architect, Visual Paradigm, Draw.io/ JDeveloper UML, VISIO, Eclipse, IDEA
• Frameworks	SalesForce CRM, Faces, UNIFI, Stellent, Spring, Hibernate, Hazelcast, Zafin
• Database/ Modeling	Oracle, MySQL/ EA, Power Designer, ERWIN, ArcStyler, TOAD, SQL Modeler
• Monitoring & Diagnostic	IBM Tivoli, Splunk, HP BSM, HP Diagnostic
• Open Source	XDoclet, JUnit, MAVEN, Spring, Log4j, Grinder, CruiseControl, ANT
• API	API Microservices Architecture
• Cloud / Containesr	AWS Cloud, Azure Cloud, Hybrid Cloud Solutions, DevOps CI & CD/ Docker, Kubernetes

Experience:

Senior Solution Architect	RBC Wealth Management | Data Services | Toronto | Feb 2023 - now - permanent
	AWS, SpringBoot, OCP, PCF, SingleStore DB, Helios CI/CD, AWS SnowFlake, AWS SingleStore, KAFKA, DataStage, VISIO, BroadRidge API, Bloomberg API, Apollo GraphQL, SalesForce, APIGEE

RBC Wealth Management is the largest full-service Wealth Management firm in Canada, delivering Wealth Management solutions through four diverse, complementary businesses: RBC Dominion Securities Inc, RBC Philips, Hager & North Investment, RBC Private Banking & RBC Royal Trust.

- Solution Architecture:10 projects/ year, value up to $ 3 million; coordinating 4 Delivery PODs
- Enterprise Architecture, Integration, Cloud Governance, Infrastructure & Data Architecture, Roadmaps
- E2E Solution Architecture, Architecture Blueprint, Internal Architecture Review, Architecture Review Board
- AWS Cloud Integration, Business Data API & REST Microservices, Domain Data Services GraphQL API, KAFKA Integration

Architecture Delivery Manager	ACCENTURE | Technology Architecture - Toronto, Mar 2021 – Oct 2022

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 & Technology to help clients improve their performance and create sustainable value for their stakeholders.

Solution Architect – National Bank of Canada – Card Domain, Montreal - Mar 2022 – Aug 2022
- Credit Card Instant Approval \| Infrared, SAFEID v2, UMA rewrite, Architecture RoadMap
- Card Credit Transaction Processing - E2E Solution Architecture, Detailed Design & Interface specifications, RoadMap
- Card Credit Transaction Processing – Business & Technical Architecture, new TP RoadMap Arch, E2E TP Data Flows
- Business Architecture Presentations, reviews with Domain Architect & other Domains architects, ARB docs presentations

API Integration Architect – Silicon Valley Bank, San Jose - 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
- ARB Architecture Docs & Presentations, reviews with API Domain Architect, created SVB HR Systems RoadMap

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

- Review HL Design & Architecture with CN Domain Architect; explain Arch solution to team – Dev, Testing, Business, ARB

EBanking API Developer – CIBC | Simplii Financial, Toronto - Oct 2020 – Mar 2021
- Digital Mobile Banking API, Microservices API Integration, HL Solution Design & Detailed Design
- Review HL Design & Architecture with Solution Architect & CIBC Team Lead

Integration Lead – Finastra CORE Banking - May 2020 – Oct 2020
- Digital Mobile Banking API & Integration, CORE Banking API & Integration, Malauzai Digital Integration Audit,
- Enhancements & RoadMap, Finastra CORE API Banking integration
- Prepare Architecture & refactoring sections of the Accenture Proposed Refactoring & enhancements deck and initiative

Microservices Integration Developer – Finxact Core Banking - Feb 2020 – May 2020
- BackBase Mobile Banking API & Integration, Finxact CORE Banking API & Integration, Savana CRM API integration
- Create E2E Integration diagrams

Technical Architecture Manager	ACCENTURE - Technology Banking - Toronto, Feb 2019 – Mar 2021 - permanent

TD Business Banking – OBS - Solution Architect

OBS - One Billing System Phase 2 Deposits | Strategic Billing – 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 processors, Designed Batch processing strategy & sequence
- Designed TD Autosys integration with OBS Batch Processing framework
- Designed EDPP Data Integration with OBS Staging schema
- Created OBS Target State System Architecture Diagram and map TD JIRA Epics & Stories to associated 4 Agile PODs; update all TD OBS Confluence Architecture diagrams related to OBS Deposits
- Created & solution-ed all POD5 Technical Architecture stories; worked with OBS Business Architect & OBS Solution Architect to get closure on all Deposits Architecture stories
- Linked all Architecture POD5 stories to Developments PODs stories; created Development specifications; clarified & presented the specific solution to all Development teams; approved the low level implementation
- Architecture session presentations to get sign off from various Business Banking OBS Stakeholders
- Assisted TD Solution Architect & validated GTAC & ARB OBS Phase 2 Architecture Presentation deck
- Refactored & Decomposed the Day 5 Billing Processing Job

TD Business Banking - OBS-TIL EDPP Data Ingestion - Solution Architect

OBS-TIL EDPP Data Ingestion – Customer 360 – Feb 2019 – Aug 2019
- High Level Estimates, Project initiation & Rollout decks, OBS-TIL Solution for Business Banking & EDPP
- 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
- Various Technical Solution presentations until the final Architectural solution
- Created & solutioned all POD5 Technical Architecture stories for OBS-TIL Data Ingestion; 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 & 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 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, 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 & Product Management, Billing & Cash Management platform, Product Catalog, Offer Management, Customer Management and various other Banking products/ components. Operating 80% Solution Architect and 20% Application Architect with following functions:
- Managed & coordinated Delivery Architecture Practice, Technical Architecture standards & ZAFIN Delivery Best practices
- Reviewed, refactored and 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 - Strategic Billing - Retail Banking – Jun 2018 – Aug 2018
- Reviewed Hardware 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 various batch 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 - TD OBS Deposits (One Billing System Phase 2) – OBS Strategic Billing – Feb 2018 – Feb 2019
- Operational enhancements list for CORE and Implementation layer to be planned for TD Deposits
- Operational plan to allow parallel development for Deposits and 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 overall SAD
- Participate in Scrum of Scrums and coordinating in between DEPOSITS SCRUM, TD Security SCRUM and rest of TD SCRUM teams - CIF SCRUM team (customer REST API integration stories), EDPP SCRUM team (Enterprise Data Warehouse stories), CIPS Scrum
- Solution to migrate Customer Link from Web services to JSON API; Integration with TD Federated server
- Interest Rate Engine Calculation solution for TD 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
- Solution miRevenue as Single Billing Platform for Cash Management Systems, Deposits Accounts Systems, TD Securities, TD Mortgages, TD Credit Interest etc.
- Various solutions and enhancements to support scalability: separate design to have LOB independent processing, design and solution separate Batch cluster MW to have separate LOB Batch Cluster in the same system independently processing

TD Bank - TD PP - Precision Pricing Project - Retail Banking – Mar 2017 - May 2017
- Managed the technical/ design/ architecture/ development aspects for Z5 RPE - *TD PP - Precision Pricing. Project team: 2 Developers onsite, 3 CORE Developers, 2 BA onsite, 2 QA Testers onsite, 1 Business Architect, 1 Delivery Project Manager*
- Designed TDPrecision Pricing solution– *UML use cases, Architectural diagrams, Component Design, Design miRevenue PP Integration solution, present Architecture ABP/ SAD to TD ARB/ ABS/ Architects, TD PP Project stakeholders*
- Solution Design, HLD, Detailed Design, FRD/ ISD build
- Setup Oracle VM for Development, Testing & BA; setup ZRPE Cloud Development Environment
- Coordinate with ZRPE CORE team to document exact interfaces to be available; define new interfaces Roadmap

CIBC - myClient – Pricing and Billing- Business Banking – Feb 2018 – Mar 2018
- Refactored and redesign the CIBC Business Banking Pricing and Billing - myClient - CIBC project refactoring in order to move the G4 miRevenue application to SaaS Cloud infrastructure and apply significant Operational enhancements - Batch Framework, Batch Scheduling, Batch Performance, Integration, Operational requirements, Console & UI Enhancements etc.
- Created the new SAD Solution Architecture Document for myClient Pricing and Billing Application – extracted all the E/R 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 – Business Banking Cash Management Systems | One Billing System - CSM Phase 1 – May 2017 - Feb 2018

- Managed G4 miRevenue technical/ design/ architecture/ development aspects for - *TD OBS*
- *Project team: 10 Dev onsite/ 20 Dev 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*
- Presented Architectural reviews documents, OBS Architecture Road Maps, Project Updates, Solution Design review sessions, Enhancements Solution Presentations, Critical Project Enhancements Updates etc.
- Designed, architected, refactored, configured & Performance Tuned the TD CMS - OBS miRevenue. After 7 months allocation to the TD CSM project (status red), the OBS project was back in green status & deployed in TD Bank Production Test Pilot. Completion of Stage 1 CMS allow progress to Stage 2 – Deposits, extending the OBS platform to other LOBs
- Component 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" - Statement generation XML Redesign solution, 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 & aligned with TD requirements*
  - *Design the SSO integration – miSite LDAP control setup, tune the SSO setup for miRevenue, configure SSO setup for Jasper Reporting*
- Designed 20+ G4 miRevenue application Operational Enhancements - UI Exception Management, Errors enrichment, Oracle Wallet integration, SSO LDAP integration, Jasper Real time launch enhancements etc.
- Redesigned & refactored miRevenue 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 & coordinated with Implementation onsite/ offshore team to deliver the agile fixes, setup the scope & defects for all fixes, coordinate with TD stakeholders the update on 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
- Setup Delivery Technical Architect Interview guide & interviewed candidates
- Interviewed candidates for Senior Software Engineer
- 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 then published in the 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 & Coordinated 20 MICORE Core defects & tracked directly with Zafin Product Architect

- Coordinated and presented to TD Architects: *3+ Architectural Sessions & 4 Job Framework Architecture sessions*

Bank of West – Zafin G3 miRevenue - Mar 2017 - Jun 2017
- Implemented a technical plan to allow 12 months old production issue on BOW account, were 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

Application Architect	Rogers Communications	Brampton	Aug 2005 – Mar 2017 - permanent

Technical Project Lead/ Architect – CRM Call Center Applications - 2014 – Aug 2017
- Solution Architecture & Detailed Design for CRM Apps domain
- Designed & Implemented Java Swing & Web TOGAF Metamodel application:
  - *all Environments, all Systems, all Applications, all Interfaces, all Databases Metadata, all Attributes*
  - *loaded all metadata elements: 300+ Metadata Systems, 500 + Metadata Apps, 2500* Metadata APIs - 10000+ API operations, Sequence flows steps, 300+ DB schemas metadata, 30000+ DB tables & entities*

Application Architect – Supply Chain Applications - 2005 – Aug 2014
- Application Architecture & Detailed Design for Dealer Web Apps & Supply Chain Apps

Education:	▪ Master's Degree in Computer Science, Bucharest, Romania	
	Polytechnic University of Bucharest - Automation & Computers Faculty	
	Advanced Software Control and Automation Systems	
	▪ Accenture Architecture School Training	Feb 2022
	▪ AWS Training (Instructor)	Feb 2021
	▪ ZAFIN ZPlatform, Training	Aug 2019
	▪ TD SCRUM Agile, Training	Mar 2018
	▪ ZAFIN SCRUM Agile, Training	Oct 2017
	▪ ZAFIN miRevenue Pricing & Billing, Training	Nov 2017
	▪ ZAFIN Retail Banking/ Business Banking, RPE Training	Mar 2017
Training / Certificates:	▪ CITRIX XENAPP Administration, Training	Sep 2013
	▪ HP BPM Business Process Monitoring, Training	Sep 2012
	▪ Oracle SOA Suite 11g, Training	Mar 2012
	▪ SparX Enterprise Architect, Training	Mar 2011
	▪ HP HPD Diagnostic, Training	Apr 2011
	▪ Sun Certified Web Developer for J2EE – 310-080	Oct 2004
	▪ Sun Certified Programmer Java 2 Platform 1.4 – 310-065	Aug 2004
	▪ Sun Certified - IForce Partner	Feb 2004
	▪ Oracle SOA Suite 11g: Build Composite Application Certificate	Mar 2011
	▪ BEA WebLogic ALSB, WLS Training	Jan 2009
	▪ Embarcadero Conference	Feb 2008
	▪ BEA WLI Training	Nov 2007
	▪ BEA WebLogic Workshop 8.1, Dev2Dev Conference, Toronto	Oct 2003
	▪ DWL Customer 3.0 Training, DWL Inc., Toronto	Jan 2003
	▪ DWL Unifi 4.0 Training, DWL Inc., Toronto	Apr 2002
	▪ WSAD 4.02 Training, DWL Inc., Toronto	Apr 2002
	▪ BEA WebLogic Workshop 6.1, Dev2Dev Conference, Toronto	Apr 2002
	▪ Professional Comp. Eng. Certificate –York Univ., Toronto	Aug 2001
	Adv. Java Programming (J2EE) – PRO 408SA	
	Enterprise Java Beans (EJB) – PRO 512SQ	
	Advanced Oracle PL/ SQL – Oracle Database Programming	
	▪ Adv. Java J2EE / E-Com., Canadian Inst. for IT, Toronto	Jul 2000
Awards:	▪ Rogers Customer 1st Award 2012 & 2014,	
	▪ Rogers Business Award - Fall 2014	