## Limit Central

2017 – 2018

Limit Central enables the bank to define and compute various risk exposures, define limits on these exposures and generate alerts if exposures breach limits. It supports various workflows to define limits, change limits and acknowledge excesses.

Technologies: Java, J2EE, Flex, ExtJS, Spring, JPA, Hibernate, Ibatis, Oracle, Shell Scripts, WebSphere, Tomcat

## Market Risk System Automation

2016 - 2018

Market Risk System Automation application (MRSA) provides real time monitoring of Market Risk Servers and Applications. MRSA automates system support activities on the Servers and Applications (e.g. Set Up, Start, Stop, Update Configuration) which saves manual maintenance effort, prevents errors and provides faster turnaround time.

Technologies: Java, J2EE, ExtJS, Spring, JPA, Hibernate, Oracle, Shell Scripts, WebSphere

## Model Risk Management System

2016 - 2017

Model Risk Management System (MRMS) enables compliance with Federal Reserve System’s Banking and Information Regulation related to guidance on Model Risk Management (<https://www.federalreserve.gov/bankinforeg/srletters/sr1107.htm>). MRMS serves as a central inventory for all models used by the bank. MRMS replaces the existing 5 legacy systems used within the company to manage models. MRMS enables proper model validation and governance of all the models. Performed Requirement Analysis, Architecture, Design, Development, Support, Data Migration and Implementation.

Technologies: Java, J2EE, ExtJS, Spring, JPA, Hibernate, JBPM, Oracle, Documentum, WebSphere

## Initiative Management System

2015 - 2016

Initiative Management System (IMS) supports the Initiative Expenditure Policy of Citibank. IMS handles the entire workflow for various initiatives - from Business Plan Entry to Review, Approval, Budgeting, Monitoring and Reporting. IMS is integrated with other enterprise systems. IMS is a .Net and Java hybrid application

Technologies: Java, J2EE, .Net, Bootstrap, Knockout, Spring, MongoDb, WebSphere

## Aggregator

2015 - 2016

Accepts GAP Numbers via csv feed, converts GAP Numbers to RAP Numbers via formulas, manual information entry via spreadsheet like interface and approval workflows. Generates Feed into downstream system for CCAR Reporting

## Spreadsheet Upload Solution

2015

Spreadsheet Upload Solution (SUSY) allows user to upload excel workbooks, transforms them to csv documents based on configurable data dictionary and feeds into downstream system for reporting

SUSY supports FR Y-14A reporting requirement. (http://www.federalreserve.gov/apps/reportforms/reportdetail.aspx?sOoYJ+5BzDa2AwLR/gLe5DPhQFttuq/4). FR Y-14A is a submission requirement from Federal Reserve System. This report annually collects large bank holding companies' (BHCs) quantitative projections of balance sheet, income, losses, and capital across a range of macroeconomic scenarios and qualitative information on methodologies used to develop internal projections of capital across scenarios. SUSY is a rich internet application. It allows users to upload excel templates containing data for submission as part of FR Y-14A, transform them into CSV documents based on configurable data dictionary, and feeds them to downstream system. The downstream system consolidates the various feeds to prepare the consolidated report.

Technologies: Java, J2EE, Spring, Hibernate, ExtJS, Apache poi, WebSphere, Oracle.

## Pre-Provision Net Revenue

2015 – 2016

Generates PPNR report for CCAR by pulling data from RUBY system, manual data entry via a spreadsheet like interface, approval workflows, calculation and aggregation

PPNR is a critical submission requirement for CCAR (<http://www.federalreserve.gov/bankinforeg/ccar.htm>). PPNR application is server side spread sheet solution where users can upload excel templates defining worksheets. Data is aggregated from multiple sources as well as manually entered. PPNR is a rich intranet application.

As part of PPNR Application, designed and developed Template Loader - a component to synchronize data from RUBY application using JSON/REST interface.

Technologies: Java, J2EE, Spring, Hibernate, ExtJS, WebSphere, Oracle.

## Ruby Reporting

2014 – 2015

Risk Reports to generate data for fed submission.

Ruby Reporting is a suite of financial risk reports (Ruby Reporting) using MicroStrategy and Oracle. These reports support compliance with CCAR reporting requirements.

Analyzed high level requirements received from users and identified sources of information based on discussions and research. Created information mapping documents to document the reporting design

Designed database objects, queries and processes to support reporting requirement. Created DDL and DML to implement database changes. Tuned the performance of reports

Used Talend and Spring Batch to support ETL requirements.

Technologies: MicroStrategy, Oracle

## Enterprise Collections and Recovery

2014 - 2018

Designed, developed and supported Enterprise Collections and Recovery system (ECAR) for Wells Fargo Bank. ECAR houses the charged off accounts for various lending business units in the bank including Home Equity loans, Commercial loans, Personal Credit loans, Credit Cards, Student Loans and Auto Loans. The business objective of ECAR is to help the business units standardize collection and recovery activities by providing a unified user interface and batch interfacing with various systems. Changing business rules, compliance with regulatory policies, new interfaces require frequent changes to the existing application to cater to such changes in business processes/needs.

Developed multiple business processes related to Collections and Recovery:

* Loan Modifications (HAMP) – Helped the system comply with HAMP regulations. HAMP is a loan modification program designed to reduce delinquent and at-risk borrowers' monthly mortgage payments
* Checklists – Replaced paper and excel based checklists with system maintained checklists and templates ensuring business processes are properly executed. This is integrated into multiple business processes and approval workflows.
* Capital Markets Edits and Controls – Various checks and approvals were added for Investor owned securities.
* MSP Synchronization – This enables on-demand synchronization of information from multiple systems into ECAR reducing the need for the user to go to multiple systems to service a loan.
* Desk Review Appraisals – Support for desk review appraisals.
* Automatic Payment Setup – Support setting up automatic payments via phone or mail. It is integrated with witness system to record the phone conversation.
* Legal Judgment - Migrated from legacy PowerBuilder to web technology.
* RVS Appraisals – Enables submitting appraisal order to a 3rd party Appraisal Company for appraisals and receiving status updates and final appraisal.

Technologies: Java, J2EE, JSF, RichFaces, Spring, Oracle, PL/SQL, WebSphere, Tomcat

## Search Interface to SAS Content

2007 - 2010

Lead the development of “Search Interface to SAS Content” product from prototype stage to multiple releases. Search Interface to SAS Content is a Web application that integrates searching SAS contents (such as reports, dashboards, and information maps) through enterprise search facilities like SAS Search and Indexing Server, Google Search Appliance, Microsoft SharePoint Search Server, and the search toolbar of the latest browsers. It can be downloaded from <http://support.sas.com/downloads/package.htm?pid=691>

## Common Components

2007 – 2010

Developed common components - Reusable Presentation Layer and Web-Tier UI components and frameworks which are used by various SAS Products and Components using Java, JavaScript, AJAX, HTML, XML, Flex

## SAS Formats

2007 - 2010

Developed SAS Formats – a library to parse and format values in client-tier and mid-tier using Java and Flex. This is used by multiple SAS products and solutions.