Mabel Oza
Driven innovator with an insatiable appetite to connect our world

PROFESSIONAL EXPERIENCE

Wells Fargo | San Francisco, CA   October 2015 - Current
Application System Engineer

Blockchain/DLT

- Developed WF Digital Cash, WF issued stable coin, live in 2022, powered by our internal blockchain network and DApps

- Optimize and maintain our bank's internal Corda Network to make the network resilient and scalable by orchestrating with different groups in our internal network, including our database, networking, security, and HSM groups

- Reduced the transaction duration and variances by monitoring critical components in our DApp, like UTXO behaviors, HSM signing, peer to peer networking, database read and writes, and making code/configuration modifications

- Design and research cryptocurrency custodial services to manage customers' cryptocurrency keys at the bank

  - Presented and submitted a patent for backing up wallet mnemonic phrases

  - Design and write POC code to manage wallets at the bank

  - Collaborate with MPC (multi-party computing) and HSM vendors to find the best tools for this solution

- Submitted two patents tackling the problem of tackling double spend in interoperable permissioned networks

- Pitch Blockchain and create POC's that would illustrate the benefits of using blockchain in existing processes

Smart Content's Alfresco Process Service (Activiti BPM) Incubation – Architecture and Agile Development

- Incubated Alfresco Process Service (Activiti) into the bank and getting it ready for a container deployment

- Setup BBD (behavior-driven development) testing framework, Karate, to run automated tests for our REST services

- Developed Spring Boot microservice applications to bridge APS (our vendor software) to other WF services

- Developed a Spring Boot microservice template along with documentation, getting the development process down to 2 days of work

Abbot Downing's Content Management Application – Maintenance and Tech Refresh

- Customized IBM's Content Navigator to better fit the business's needs by collaborating on the design of enhancements

- Coded and debugged IBM's Content Navigator REST protocol and plugins to address bugs and product customizations

- Maintained and adjusted IBM's Content Navigator software to follow regulatory and WF's evolving security requirements

- Developed automated test plans and JUnit tests to enforce a more TDD (test-driven development) cycle

- Guided the integration of the DevOps tools (i.e., Jenkins, UDeploy) and local development (i.e., Liberty) with the development team

Consumer Lending Group Business Rules (ODIS) – ODM/Java Development and Solution Engineering

- Enabled the lending group to manage their logic by creating an app that translates business logic statements into SQL and Java code

- Developed Java models to support IBM's Operational Decision Manager technology, legacy, and modern database technologies

- Designed business rules management architecture including staffing, timelines, resources and technologies needed, and guidelines

- Led monthly educational sessions on Business Rule Management System best practices

Accenture| *Sacramento, CA*   June 2015 - October 2015
Software Engineer

- Worked with California's welfare program in translating their federal and state policies into Java Spring

IRI Worldwide | *Chicago, IL*   April 2014 - May 2015
ODM (iLOG) Administrator/Java Developer

- Developed a vision for the application and process, and evaluated features that we would include in each release

- Optimized the application's performance by monitoring and tuning WebSphere 8.5 across three of the servers and evaluating the available rule algorithms RAFT, RetePlus, Sequential, and Fastpath

- Automated maintenance tasks by creating internal tools

- Trained four colleagues on best practices, debugging strategies, SQL, and writing and maintaining rules in ODM

- Reduced the client setup/update process from five days to 10 minutes and made an intensive Java, XML, SQL, and IRL coding project business analyst friendly by creating automated code generators

- Built standalone Java GUI programs allowing non-technical people to write and run complex SQL scripts in seconds

- Documented all aspects of the development work, including BOM/XOM development, API calls, rule flows, and rule project setup

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IRI Worldwide | *Chicago, IL*   August 2012 - April 2014
SAS Analyst

• Modified decision tree ML algorithms (i.e., CHAID, C5) to help retailers find the best assortment of items to include in a category

• Designed tools and processes that helped users easily transfer and interpret data from legacy systems

• Created template SAS programs with macros that allows SAS analysts to perform procedures for different clients easily

• Streamlined the process of finding category name changes and splits from one week to a day

• Built a rule system that helped retailers and vendors collaborate on item assortment decisions saving 20 days of work

PERSONAL PROJECTS
React Developer on HealthChain   July 2019 – March 2020

• Created a provider and patient portal that allows cryptocurrency payments, provider search, and fosters better care management

• Secured portal using Firebase and Coinbase authentication and authorization protocols

• Researched different Ethereum wallet authorization tools

• Captured valuable patient and provider data using Firebase Firestore (Google Cloud NoSQL Document Database)

Co-founder at ODM/iLog Meetup Group   January 2016 – June 2020

Pro-Bono Consultant at ChicagoLoopClub   May 2015 - January 2016

• Organized an event planning/implementation website that coordinated rides and reservations for parties alongside a small team

• Customized the website to fit the co-founder's vision using CSS, HTML, Javascript, and PHP

• Trained teammates on managing the company's database and set up API calls that would update the database regularly

Android Developer for Bay Area FoodBanks   January 2020 - Present

• Developing a white label android application for multiple bay area food banks

SPEAKING ENGAGEMENTS
UIC's Chicago Exchange Course – Guest Lecturer   September 9th 2021

WomenHack - The All-Women Hackathon San Francisco – Mentor and Judge   October 20th, 2018

BlockchainAwakens Hackathon 2018 – Mentor   August 4th – August 5th, 2018

Hyperledger Meetup San Francisco – Presenter on *A Detailed View of Consensus Algorithms*   April 2nd, 2018

UCLA's Blockchain Business Applications Course – Guest Lecturer   May 8th, 2018

Hyperledger Meetup Seattle – Presenter on *A Survey of Consensus Models in Hyperledger*   June 19th, 2018

CERTIFICATES OF ACHIEVEMENT AND EDUCATION
UC Berkeley, San Francisco - Certificate in Algorithms and Data Structures   September 2018 - November 2018

FinTech School - Solidity Programming Workshop   August 2017

UC Berkeley, San Francisco - Certificate in Android Development   August 2016 - September 2016

New York University, New York - Certificate in SAS for Data Mining   September 2011 - November 2011

University of Illinois, Chicago - Bachelors in Marketing   September 2007 - May 2010

TECHNICAL SKILLS
Alfresco Process Service, Android Studio, AppDynamics, Cognos, Content Navigator, Corda, CSS, Decision Tree ML, Docker, Eclipse, ELK, Ethereum, Firebase, Git, Gradle, HSMs (Hardware Secure Modules), HTML, Java, JavaScript, Jenkins, JSON, Karate, Liberty Server, Linux, Mainframe, Microservices, MS Access, MS Excel, MS SharePoint, MS Visio, NoSQL, ODM, PHP, REST API's, React, SAS, Shell Scripting, Spring, SPSS Modeler, Splunk, Spring Boot, Solidity, SQL, SVN, Tomcat, Truffle, UDeploy, Unix, Visual Basic, WebSockets, WebSphere Server, XML