

JONATHAN SANDOVAL CRUZ

Work Authorization

Green Card Holder

Location

Columbus OH, US

Contact

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Languages

Spanish (Native)

English (Full Professional)

Skills

Modern Android Development (MAD Skills)

Android Jetpack

Android SDK

Android Jetpack Compose

Dagger 2 / Dagger Hilt

Kotlin Multiplatform

Kotlin Multiplatform Compose

Coil / Glide / Picasso

Room Database

REST Retrofit/Volley/GraphQL

MVVM

MVI

MVP

Kotlin coroutines

Kotlin Flows

RxJava

JUnit/Mockito/Robolectric

Jenkins

Unity

SpringBoot / JPA

NodeJS

Bash/shell

YAML

PROFILE SUMMARY

Versatile Tech Lead and Full-Stack Developer with nearly 20 years of experience building robust, scalable solutions for global financial institutions and retail giants, including **American Express, JPMC, Citi, and Ibotta**. Expert in **Modern Android Development (MAD)** and backend architecture using **Spring Boot, Kotlin, and Java**.

Currently proficient in **Agentic AI development**, leveraging tools like **Ollama, LangChain4j, and the Google Agent Development Kit (ADK)** to bridge the gap between advanced backend intelligence and seamless mobile user experiences. Proven track record in leading high-impact UI migrations and architecting enterprise-grade design systems (AmxDS) that standardize development across global teams.

EXPERIENCE

Employer: Insight Global

Client: American Express

https://play.google.com/store/apps/details?id=com.kabbage.mobile&hl=en_US

August 2024 - Present

Senior Android Developer / Tech Lead / Platform Engineer

Jetpack Compose, Android SDK, MVVM, Dagger 2, Retrofit, GraphQL, Kotlin coroutines, Kotlin Flows, RX Java, Unit-testing, Git, Bitbucket

Actively designing the strategy to migrate the legacy UI framework (Airbnb Epoxy's framework) to jetpack compose.

Revamping the "pay your card" user experience based on customer's feedback in order to smooth the process of executing card payments.

Creation of Design System (AmxDS) that homologizes the creation of UI across the different teams within AMEX Blue. This task is performed using Kotlin and Jetpack Compose framework

Revamping of Business Checking Account feature to provide more flexibility while searching transactions related to personal accounts.

Optimization of performance by refactoring and merging API calls in order to enhance customer experience.

Source Control

Github

Bitbucket

GitLab

Agentic AI

Ollama 3 / Fabric /
langchain4j / Claude / Github
Copilot / Cursor / Windsurf
Google Agent Development
Kit (ADK)

Tools

LaunchDarkly
Bitrise
Embrace
Miro
Sketch
Sigma
Jira
Confluence
Datadog
Postman
Charles Proxy
JFrog Artifactory
PagerDuty

Programming Languages

Kotlin
Java
Python
C#

Databases

SQL
Postgress
Oracle
MySQL
SQLite

UX Tools

Figma, Sketch, Miro, InVision

Education

Computer Systems Engineer
(2002 - 2007)
National Polytechnic Institute
<https://www.escom.ipn.mx/>

Employer: Ibotta

https://play.google.com/store/apps/details?id=com.ibotta.android&pcampaignid=web_share

May, 2023 - August 2024

Senior Android Developer / Tech Lead / Platform Engineer

Jetpack Compose, Android SDK, MVVM/MVI/MVP, Dagger 2, Retrofit, GraphQL, Kotlin coroutines, Kotlin Flows, Arrow, Unit-testing, Github, Spring Boot, JPA

As part of the redemption experience, I've participated in the development of features to increase the flexibility for customer to redeem offers and maximize cash back during any purchase.

Development of Digital Parking Lot (DPL) feature which consist on identifying products after savers purchases that qualify for cash back rewards.

Development of feature to prevent multiple redemptions (anti-stacking) and frauds which helped to **cut losses and boost earnings in ~25%** to the company on Direct to Customers (D2C) channel (Savers).

Rewriting search feature and optimization of barcode scanning process based on customers feedback. We reduced friction and provided a better experience to customers when searching / validating offers.

Led the development of earnings details simplification project which allows savers to get a more concise UI related to their transactions.

Development of new **REST API'S** to retrieve data related to recent purchases and transactions made by the customers using SpringBoot and JPA.

Worked on an effort of breaking time costly APIs into a new subset of lighter API suite that improved responsiveness on the user experience for UI channels (Web and Mobile). This effort included the incorporation of Kotlin in SpringBoot so, we could leverage the usage of Kotlin coroutines and flows for implementing asynchronous work.

Employer: Photon Infotech Inc.

Client: Citi

https://play.google.com/store/apps/details?id=com.citi.citimobile&pcampaignid=web_share

Jan, 2021 - May 2023

Former Tech Lead / Former Senior Android Developer

(Android Jetpack, Android SDK, Navigation-Graph, LiveData,

MediatorLiveData, MVVM/MVI, Dagger 2, Retrofit, Volley, Kotlin

coroutines, Kotlin Flows, SpringBoot, Unit-testing, etc.)

Development of feature for showing material to Citi's customers based on their custom preferences, in order to educate themselves on how to plan and start investing in the market (News and Insights)

Development of rest **REST API's** for the retrieval of securities, ETF's and Mutual Funds consumed by FrontEnd layer (mobile) using Spring Boot and JPA

Development of feature for making users to evaluate themselves based on the material consumed on News and Insights feature and prepare them on setting brokerage accounts

Close collaboration with frontEnd (AngularJS) and backEnd (Spring) teams in for the creation of the data models that were served as response so, FrontEnd teams (mobile and web) could consume them.

Development of Make a Trade module for allowing users to perform brokerage operations such as buy and sell Stocks, ETF, Mutual Funds via placing different order types (Market Orders, Limit Order, Stop Order, Stop-Limit Orders, Fill or Kill Orders and All or None Orders)

Coaching and training of new joiners and helping on understanding of the code base.

Employer: Photon Infotech Inc.

Client: JP Morgan

https://play.google.com/store/apps/details?id=com.chase.sig.android&pcampaignid=web_share

May, 2019 - Dec, 2020

Former Android Developer / Former Software Engineer

(Java, Kotlin)

Creation of MDS (Manhattan Design System) framework for the development of Chase's Mobile features using native Android using Java and Kotlin languages. This design system its implemented by the entire mobile division that is part of JPMC.

Key Components of MDS

Standardized UI Components: MDS provides a library of pre-built and pre-coded UI components for Android (using Java and Kotlin). These components include buttons, forms, text fields, navigation elements, etc. This ensures a consistent user experience across all Chase mobile features.

Design Patterns and Guidelines: MDS defines best practices and design patterns for building and arranging UI elements. This promotes a clean and intuitive user interface across Chase's mobile apps.

Reusable Code Snippets: By leveraging pre-written code for common functionalities, developers can focus on building unique features and functionalities faster. This significantly reduces development time and effort.

Design Documentation and Tools: MDS likely includes detailed documentation, design assets, and potentially design tools to facilitate consistent implementation across the mobile development team.

Benefits of MDS

Consistency: MDS ensures a consistent user experience across all Chase mobile features, regardless of the specific development team or feature.

Efficiency: Pre-built components and reusable code significantly accelerate development, allowing developers to focus on innovation instead of repetitive tasks.

Quality: By adhering to a defined design system, the quality and maintainability of Chase's mobile code base are likely to be improved.

Reduced Costs: Faster development cycles and improved code quality can lead to significant cost savings.

Employer: Atos Syntel
Client: Kroger Technologies:
Mar 2019, May 2019
Former Android Developer
(Android Jetpack, Android SDK, MVVM/MVI, Dagger, Kotlin coroutines, Unit-testing, etc.)

Development of Product Locator App for associates in warehouses of Kroger.

Improvement of Continuous Integration processes while releasing new versions of the app.

Definition of release/branching strategy in order to reduce regressions during the release process into the stores.

Implementation of high-quality code mechanisms and techniques such as TDD.

Refactoring of the actual codebase to make the more re-usable components and reduce performance issues in the app.

Coaching of new hires to ramp them up into the project.

Employer: Photon Infotech Inc.
Client: Alliance Data Card Services
Feb 2017 - Feb 2019
Former Tech Lead / Former Android Developer
(Android Jetpack, Android SDK, MVVM/MVI, Dagger, Room DB, Kotlin coroutines, Unit-testing, etc.)

Establish a detailed program specification through discussion with the client

Design and implementation of Payments features

Perform enhancements to existing features

Implementation of Code coverage and Test Coverage on Pull Request builds using Jacoco and Slather on Jenkins

Architectural design of new features in order to fulfill the requirements

Implementation of Analytics tools for marketing purposes

Implementation of Cobranded Credit Card (VISA and MasterCard) for 15+ Clients (Victoria Secret, Ann Taylor, Loft, Aspire, Ballard Designs, Express, New York & Company, Trek, Venus, etc.)

Integration of OAuth API's into Native Account Center Library (NAC)

Leading of 3 Android and 3 iOS developers

Integration of automation suites into a Continuous Integration (CI) process for both platforms (iOS and Android)

Rollout of Password Complexity Project:

Provide the ability to require a password update

Provide the ability of enable and disable this feature by client at any time

Given this feature is enabled (Password Complexity), when a user attempts to sign in with any accepted authentication type, then users will be forced to reset their password before accessing their account

Provide the ability to stop users from signing in and notify the users they must update their app to the latest version

Employer: Altriatec

Client: Coca-Cola

Apr 2016 - Jul 2016

Former Senior Service Delivery Manager

Mapping of processes (AS-IS) for the Plant Maintenance (PM), Material Management in Warehouses (MM) and Direct Sales and Distribution (DSD) of Coca Cola (Alica) at Tepic, Nayarit.

Mapping of processes (TO-BE) for the Plant Maintenance (PM), Material Management in Warehouses (MM) and Direct Sales and Distribution (DSD) of Coca Cola (Alica) at Tepic, Nayarit.

Implementation of SAP DSD, SAP MM, SAP PM modules in Coca Cola (Alica).

Planning and execution of continuous roll-outs using Continual Service Improvement Methodology.

Employer: CITEC / IAMSA Group

Client: Omnibus de Mexico, Grupo Toluca, VIVA Aerobús

Apr 2014 - Jan 2016

Former Senior Service Delivery Manager

Responsible of the migration of the system that controls the sale of hard tickets and e-tickets for passengers on ground transportation across all Mexico. This migration consisted into re-write this system from legacy code to C# in order to keep the core business platform scalable to news demands and customer needs.

Planning of the continuous roll outs to Production environment for different modules in order to do not interrupt operation with the legacy platform and keep the coexistence of both systems.

Coaching to developers and implementation of best practices for the development teams such as Test Driven Development. With the incorporation of this methodology, we achieved a reduction of 70% of defects and regressions during roll outs.

Negotiation of contracts with SAP Mexico / LATAM for the implementation of SAP HANA and SAP Fiori into the repertoire of technologies that IAMSA Group has as assets.

Migration of 90% of the offices and point of sales to the cloud using Office 360 for Business.

Development of internal tools with CITEC AVIATION in order to get records of how many users visited Viva Aerobus portal to buy tickets and how many of them converted into ticket purchases.

Employer: NEORIS

Client: Doctor Pepper Snapple

Jun 2012 - Mar 2014

Former Service Delivery Manager

Integration of Java and Legacy Systems with SAP ERP

Responsible for coordination, planning, control and tracking the entire Dr Pepper Snapple's / Grupo Peñafiel operation in MX (Support Level 2 and Level 3)

Responsible for creating sales plans for information technology services

Responsible for managing project cost -1.2 million dollars- yearly

Lead Nearshore Team +50 people- to provide IT support to DPSG (Dr Pepper Snapple Group / Grupo Peñafiel)

Responsible for migration of Electronic Invoice Migration CFD to CFDI according to government guidelines

Quality Monitoring of service and SLA's AND OLA's with the customer and vendors

Coordinate SAP Support (DSD/SD/PP/MM/PM/FI/CO/BO/BW/ABAP/BASIS/Electronic Invoice and NonSAP Platforms)

Employer: Accenture
Client: Telefónica Movistar
Jun 2011 - Apr 2012
Former Software Architect
(Spring, Spring MVC, Spring JPA, Hibernate 3.0 and Glassfish)

Development of System for registering and measuring outages of Telefonica Movistar (TELECOMM) using Spring Authentication, Spring MVC, Spring JPA, Hibernate 3.0 and Glassfish as an Application Server

Integration of Outages Platform with Oracle BRM (Business Relationship Management) and HP OpenView Operations (Hp OVO) platform for analyzing impacts of outages and take corrective and preventive actions in order to minimize impacts in user's connectivity.

Employer: Secretaría de Haciendo y Crédito Público
Client: Secretaría de Hacienda y Crédito Público
Apr 2009 - Jun 2011
Former Tech Lead
(JEE, Spring, JSF / Primefaces, JPA, Hibernate)

Design and Development of portal of On Demand Statistics for Public Finances of Mexico(<http://presto.hacienda.gob.mx/EstoporLayout/>).

Support of the system that provides public data of Financial Growth Indicators (AIEF) of Mexico as a nation.

Collaboration for the consumption of services / end points with different financial institutions in Mexico in order to generate reports of the Mexican gross domestic product (GDP) per year.

Employer: Softtek
Client: General Electric
Oct, 2007 - Feb, 2009
Former Software Engineer
(JEE, Spring, JPA, Hibernate)

Support and Management to REACT System

Responsible for Release and Testing processes of the app

Responsible for designing stress test for measure performance in the app and provide solutions when issues appear

Responsible for being in touch with Customer located in NY for giving support

Responsible for Managing and Tracking of Deployment release to DEV, QA, STG (Staging) and PR environments

Responsible for training to new resources added to the team

National Polytechnic Institute (IPN)

May, 2006 - Oct, 2007

Former Software Engineer

Developer of portal for Strategic IPN Center

<http://www.gestionestrategica.ipn.mx/Paginas/Inicio.aspx>

Developer of Foreign Research portal on IPN <http://www.riv.ipn.mx>

REFERENCES

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