

JC (Juan Carlos) Carrillo

8150 SW 72 AVE #1118
Miami, FL 33143

jccarrillo@acm.org

(786) 340-1092

SUMMARY:

Hands-on, customer-first, entrepreneurial-spirited, driven multifaceted technology leader with 10+ years of executive-level experience identifying, qualifying, building consensus for, implementing enabling technologies & enterprise systems that facilitate business processes & strategic objectives. Recognized as a professional that thrives in challenging, fast-paced IT organizations delivering systems, solutions, architectures & applications. Known for jump-starting product implementation & resolving complex engineering issues through creation & implementation of designs, instituting policy, standards & improving architecture's overall capabilities with a proven track record of building, structuring, developing & directing high-performance teams from the ground up.

- Experienced in all phases of SDLC within Highly Scalable Distributed Enterprise Systems in healthcare, e-commerce, human resources, logistics, social, finance, telecommunication/mobile industries.
- An expert on internet/intranet frameworks & related technologies.
- Technical team manager, leading teams, setting technical direction & applications strategy.
- Agile practitioner: Planning/Backlog/Review/Retrospective.
- Designed, developed & maintained Databases (MySQL/DB2/Oracle/PostgreSQL).
- Experienced in virtualization technologies, managing cloud technologies, data centers, networks with years of desktop engineering & help desk operations.

Latest Accomplishments:

- Built & managed an Investment Management Product - iOS and Android mobile apps as well as API services.
- Redesigned & implemented an EMR's Medication's interface. Certified solution against FDA & SureScripts.
- Transformed a J2EE application into an OSGi architecture to modularize components to provide better development structure as well as utilize its plug-in architecture to cope with automatic updates of the software. Currently running on more than 30k data centers.
- Defined & implemented a uniform Enterprise Cloud Ecosystem for a multiplicity of Cloud Service Consumers.
- Delivered several Continuous Integration solutions to streamline development.
- Created a gRPC service architecture as to provide a Service Tier for Web & Mobile Service Tier consumptions.
- Taught, established & ran successful SCRUM teams.
- Architected entire RESTful solution for Enterprise Device Management solutions.
- Evaluated Single Sign-on solutions integrating Active Directory using LDAP.

PROFESSIONAL EXPERIENCE:

Intermex International

Fullstack Architect (consultant)

Miami, FL

Dec 2018 - Present

Assisting digital transformation efforts for Intermex's internal back office tools.

- Leading Angular and ReactJS application development.
- Assisting with SQL stored procedure development.
- Involved in .Net Web API & Core architectures.

PVTek

Hands on Solutions Architect (part-time/weekends)

Remote

July 2018 - Present

Managing and assisting in the design and development of a Mobile & Serverless Architecture for the travel industry.

- Lead and manage the design and development of React-native travel app.

- Leading serverless architecture implementations within AWS utilizing AppSync, DynamoDB, Lambda and Cognito as well as implementing and supporting a continuous delivery pipeline using CodeBuild, CodeDeploy, CodePipeline, CloudFormation, S3.
 - Lambdas implemented in Java using Google Guice for dependency injection with some lambdas developed in NodeJS.

DVDENDO, INC.

Miami, FL

CTO/Hands on Solutions Architect

May 2017 - Oct 2018

Responsible for the short & long term digital strategy for Dvdendo's proprietary mission-critical mobile investment platform by ensuring uptime of services at all layers of the digital solution from mobile apps to databases as well as being hands-on in the design, development, deployment & maintenance of solutions.

- Created and managed the company's Contact Center as to streamline all customer requests from multiple sources into a single channel from which support specialists would act one. This included sources from email, slack, chatbots, phone and many others.
- Led over the digital direction of the micro-investment platform by aligning business and user requirements with digital solutions while managing digital strategies, product roadmaps, and product designs.
- Responsible for the design, development, deployment, app store submissions and maintenance of the entire digital platform to ensure successful delivery of the product to stores as well as to ensure on-time delivery of solutions and for them to be within budget by prioritizing features and fixes.
- Led onsite/offsite backend & frontend teams to ensure product specifications were met both from a business perspective as well as from an architectural perspective to ensure solutions aligned with the strategy and roadmaps.
- Developed policies/procedures for internal control oversight, compliance with laws, regulations such as KYC/OFAC, ensure platform adheres to SEC regulations as well as the safeguarding of assets, reliability of internal reporting, efficiency & effectiveness of operations.
- Designed, implemented & managed the environment to provide real-time analytics to ensure uptime.
- Administer AWS cloud infrastructure: storage, compute, network, regions, DNS, VPCs, load balancers, security (SSL certificate, Key management), backups, replication. (RDS, EC2, S3, IAM)
- Manage containerization & orchestration of digital solution.
- In charged of tech budgeting./acquisition/compliance/third-party evaluation & HR vendor management.
- Structured, led & retained highly skilled resources that are experienced & committed to excellence & delivering world-class solutions both in-house & offshore.
- Led the architectural vision of Dvdendos' React-Native solution.
- Managed React-Native teams while being hands-on in the architectural design and overseeing code reviews.
- Managed backend teams developing Java front-end APIs built on Spring-Boot using an event-driven architecture as well as PHP running on CakePHP.
- Interacted with third parties such as APEX Clearing, DriveWealth & Plaid to actively improve internal processes such as trading activities (buy, sell, allocation), account rebalancing, funding, credit card monitoring & more. Also, integrated with SaaS companies such as Customer.io & Intercom.io.
- Monitored JVM for performance enhancements as to keep systems within Heroku memory boundaries.

KIPU SYSTEMS, LLC.

Miami, FL

Manager/Lead/Hands on Senior Software Architect

Apr 2016 - May 2017

Recruited by the CTO to lead the Medication's architecture redesign to improve time-to-market & satisfy business goals by adjusting pre-existing practices, componentize solution & creating a delivery pipeline thus allowing team growth, parallelization of work & a continuous improvement cycle to manage over 1k facilities, 5k deployed servers & over 25k simultaneous users.

- Ensured practices were in compliance with HIPAA regulations.

- Provided technical guidance to the CTO office, including technical direction & third party software research.
- Championed team leadership & career growth of direct reports by coaching & mentorship focusing on teamwork with open communication lines. Led a team of 10 to 12 onsite resources and 3 to 5 offsite development resources.
- Oversaw HR vendor management parties.
- Overhauled the entire Computerized Physician Order Entry (CPOE) solution to allow seamless e-prescribing integration with third-party providers as well as managing ECPS controls & certifications.
- Involved in hands-on development of the system, built on Ruby on Rails.
- Modified admissions/discharge processes to account for allergenic, pre-existing conditions & prescription details.
- Improved the Medical Administration Record (MAR) to handle tapering methods.
- Worked along C leadership towards timelines, costs & risks.
- Collaborated with facilities as well as internal customer representatives to understand customer needs to deliver innovative solutions that added direct impact to the solution.
- Daily management of PostgreSQL databases - migrations & design improvements using Ruby On Rails.
- Built & deployed Jenkins as a CI tool to orchestrate the build, test & deploy microservices by creating simple bash scripts with custom open source plugins & used Docker along with JFrog to version releases & ease deployments.

CHEWY.com, Inc.

Dania Beach, FL

Senior Software Developer (Consultant)

Dec 2015 – Apr 2016

Recruited to provide immediate development power to support the company's rapid growth.

- Prototyped mobile solution for iOS (Objective C) & Android (Java) to interact with existing homegrown Google Guice/Jetty e-commerce application utilizing gRPC for bidirectional communication.
- Helped setup CI using Gradle, GIT, Junit, Selenium, JBehave, Stash/Bamboo. Designed, developed JUnit Integration Tests infrastructure using Google Guice/Stripes with Mocking Framework as well as an in-memory database. Helped develop Ansible components for deployment purposes.
- Involved in Major refactoring efforts to introduce a Service Layer to the entire application.
- Integrated Web Flow with Oracle's Rapid Re-targeter solution using Javascript, HTML & CSS.
- Migrated code base from Hibernate 3.x to 4.x.
- Designed & developed QAS Pro Web Integration to validate addresses.

OPENPEAK, INC.

Boca Raton, FL

Lead Senior Software Architect/Manager

May 2012 – Dec 2015

Responsible for OpenPeak's Secure Gateway product which allowed LDAP & SAML authentication as well as the entitlement of a client's internal resources by providing a distributed mesh network deployed to thousands of clients.

- Worked closely with stakeholders by providing digital roadmaps.
- Hired and managed development resources. Direct reports ranged from 8 to 15 individuals from development, ui/ux and qa resources.
- Engaged with Intellectual Property attorneys to submit patent applications.
- Managed simultaneous projects engaging with customers by gathering requirements, creating designs, documentation, & leading projects from inception to delivery.
- Close interaction with onsite and offsite product teams as well as clients to set or define business and user requirements for OpenPeak's Enterprise Mobile Management Cloud solution & its Gateway that interfaced with on-prem secure third party services.
- Led the product design and development of OpenPeak's On-Prem Gateway Solution, which interfaces with Microsoft Products such as Active Directory, Exchange & NDES, utilizing the OSGi model which is allowing development & testing of the Gateway to be more Agile. More than 30k licenses running as of Sep 2015.

- Introduced Spring Integration to manage distributed messages by leveraging well-established enterprise integration patterns such as gateways, filters, splitters & more. This allowed components to be very well tested with simple to read XML configuration files.
- Assisted in internal & external regulatory approval processes.
- Co-led the re-engineering of OpenPeak's Enterprise Mobile Management Cloud solution to meet client's expectations as to ease integration with their systems (REST), to be able to process large data sets, all while reducing the footprint of the solution. Such is currently running on Blackberry's, AT&T & Deutsche Telekom's cloud infrastructures.
- Worked closely with customer's infrastructure teams to monitor & enhance their private cloud infrastructure managed via VMWare. This collaboration included JVM & MySQL monitoring as well as application throughput, load balancing & distribution.
- Identified & rectified SQL/Application performance issues resulting in significant performance gains.
- Used Chef to automate the deployment of EC2 development servers & Docker to provide an easy distribution model for clients to consume.

TRACFONE WIRELESS, INC.

Miami, FL

Solutions Architect/Senior Java Engineer (Consultant)

Feb 2011 - Apr 2012

Member of the BAU (Business As Usual) team with a single purpose of ensuring system uptime while upgrading & managing Legacy systems.

- Engaged with wireless carriers for integration requirements such as AT&T to upgrade the way Tracfone integrates with them by either modifying jar files, changing IPs or modifying APIs or XML schemas to handle new requests.
- Highly involved in refactoring efforts to improve quality & reduce technical debt.
- Collaborated with QA engineers to ensure prompt delivery of hotfixes & projects & understanding of new bugs.
- Constantly took initiatives to update legacy JSPs to use JSTL for scriptlet removal. All new requirements for JSP changes were done using JSTL. Also, create Tag Libraries when necessary.
- Involved in the ongoing process of updating the spring framework configuration to handle new DAO injections.
- Co-lead a constant migration of in-house SQL query handling to Spring's JDBC framework for better handling of database objects & database pooling.
- Worked on in-house Web Service Model (no SOAP - homegrown) to handle all database activities, massaged DAOs & Business Logic when needed.
- Involved with different business entities to understand requirements & execute them. Understanding of Process Flows Diagrams was needed.
- Assisted with efforts of creating utility classes to facilitate the efforts of JUnit Development & enforce the on-going development of it. Used JMock to prevent database access & avoid integration testing.
- Assisted DevOps debug Weblogic performance tuning due to database memory leaks, logging & other features.
- Helped Oracle PL/SQL developers identify hard-coded queries that should be turned into stored procedures.

ADRISS, INC.

Miami, FL

Founder, CTO

Mar 2009 - May 2013

IT Management: Engaged in I.T. infrastructures projects from design to implementation to maintenance.

- Collaborated with executive teams to assess & recommend technologies in support of company needs.
- Recommended I.T. strategies, policies, & procedures by evaluating organization outcomes, identifying problems, evaluating trends & anticipating requirements.
- In charge of recruitment, training & career development of the technology department in Miami & LATAM.
- Vetted & created client solutions to assist in their digital transformation efforts. Delivered on time & within budget.
- Oversaw planning & technology purchasing, both on-prem & cloud solutions.

- Proactively identified revenue-generating and/or cost-cutting opportunities as well as opportunities to help Adriss, Inc. while consistently providing world-class service & technology to its clients.
- Streamlined communication channels (Contact Center) for several companies as to assist in their service support activities.

Technologies: Microsoft SQL/Oracle, Windows Servers, Active Directory, LDAP, OUs, Group Policies, DHCP, DNS, Desktop Management, Remote Profiles, Server Replication & backups.

Software Design & Development: Architected, developed & managed remote teams to create off-the-ground web applications for many US clients, some of them below.

F&E Aircraft Maintenance, LLC

- Created the Software Requirements Specifications (SRS) of a Work Order Management System that allowed the company to seamlessly manage their workload & provide real-time notifications & access to work orders to clients & staff.
- The SRS included Use Case Diagrams & Specifications, Database Models, Flow Diagrams, Class Diagrams & UI Mocks.
- The application was designed to be a web application that looked & appeal to the android tablets & because this system was to be used by wireless tables, the use of AJAX, JQUERY was used to not load complete pages but certain elements upon request.
- Led the Design, Development, Deployment & Maintenance efforts with a team of 3 Java Developers, 1 Web Designer & 1 Systems Engineer.
- System was developed in Struts 2 using Tiles & iBatis & deployed in a non-distributed Linux environment running Apache Tomcat as a Web Server & a MySQL Database server running on a different Linux box. No failover was created but backups were externalized & a plan was in place to recreate all environments within minutes.
- Worked closely with I.T. Engineers at Collocation environment to effectively install the needed servers, deploy the application & create a disaster recovery plan.

QBank DMD, LLC

- Designed & developed a Web-based Exam Preparation Software. Involved in the SRS documentation 100%.
- Lead a team of 2 Java Developers & 1 Graphic Designer.
- Developed the base Struts 2 framework (Actions, XML Configurations, DAOs & JSPs) & implemented 80% of all JUnit Test cases. (Struts 2, iBatis, MySQL, AJAX, Java Mail, Web Services, Java Reflection)
- Led an Internship program with Florida International University to train Students in JUnit Test Case Development while teaching them about MVC Frameworks. Led workshops twice a week for 4 months.

Perfect Plug, LLC.

- Designed & developed an Online Dating Application. Created the Software Requirements Specifications, including Flow, Sequence & Use Case Diagrams as well as Specifications. Oversaw the development of the SRS, leading a team of 4 Java Developers & 2 Graphic Designers. Created a basic Struts framework for the team to work from. Struts, MySQL, iBatis & Java Mail was used to develop the application.

Chavez Enterprises

- Designed & developed a Financial Statement Reporting Web Application in Java using Struts 2, Hibernate, Java Mail & Web Services in an Agile Team Environment.

ABCListing, LLC.

- Designed & developed an E-Commerce website purely in Java with upstream & downstream integration with QuickBooks (Desktop Edition.)

Linking Promotions, Inc.

- Designed & developed a Web-based Event Management/Human Resources System transforming manual operations to Web-based transactions. The application was developed in Java using Struts, Web Services, MySQL.

Zeatrans Logistics, Inc.

- Designed & developed a Web-based Cruise Logistics Application to allow Client to keep more control of daily operations. A Custom Customer Registration System was created to protect resources using Java Security. MySQL, Java Mail, Struts, Web Services were used to develop such application.

Adirondack Associates RE

- Designed & developed a JSP driven Property Management Web Application using Java, JSP, MySQL & Java Mail.

IBM

Senior/Lead Software Engineer

Cambridge, MA

Jan 2001 - Feb 2009

Member of IBM's Software Group & part of the internal business improvement initiatives.

- Heavily involved in Software Design & Development.
- Led a Java Software Development Team of 5 to 7 Engineers & an offshore Chinese team by leading daily SCRUM meetings. Remotely ran design meetings in the US & in China.
- Re-designed the existing IBM's Web Identity integration to decrease a set of 10 Authorization portals to only 1 portal thus reducing code maintenance by implementing a single sign-on environment using a cookie driven mechanism. Designed a SAML-like implementation.
- Involved in projects related to IBM's reseller program. Improved UX by following IBM's Look & Feel standards using pre-designed CSS files & modifying JSPs. Reduced lines of code & introduced JUnit tests to increase feature development speed, maintenance & support & improving application performance & security.
- Created Ant scripts to automate JUnit testing & deployment to UAT environments. Managed UAT bug reporting by assigning tasks & oversaw the java development efforts based on business requirements.
- Involved in all Production Rollouts. In charge of testing schedules & testing procedures.
- Implemented cross-team pre-rollout code reviews to identify performance problems & security holes as well as to enforce best practices.
- Worked closely with Management to report man hours estimates based on business requirements provided by the business analysts & to provide weekly reports on development statuses.
- Led development of secure Web Services. Deployed WS were used to obtain Client Data - which other teams consumed in order to gain access to data.
- Led the introduction of Rational Tools into the Team. Run workshops explaining the integration of Modeling & Java. Due to these efforts, the team started to use Modeling tools to create & to modify the code.
- Improved Application performance by reducing Abstraction layers & by using performance techniques such as singletons, connection pooling, string buffering, etc.
- Reviewed designs (code & models) & identified code reusability.
- Involved in migrating hard-coded SQL statements into DB2 stored procedures.
- Developed a set of APIs to improve localization of text by the use of XML instead of property files.
- Modified SAP, DB2, Lotus Notes & Web Applications configuration to handle double-byte characters.
- Involved in the deployment of a distributed WebSphere Application Server Environment in AS/400 servers.
- Implemented a reverse proxy mechanism in IBM's HTTP Server.
- Helped in the Setup of a Database Driven Session Management Environment for Clustering purposes.
- Led the use of CVS as a Code Repository & led the team in the efforts of maintaining a more manageable code repository by pushing to follow Java Code Development Standards.
- Involved in the restructuring of a legacy purchasing system & transformed manual methods of purchasing such as sending faxes or emailing orders into a web-driven process. IBM's proprietary Java Framework (JADE) was used to develop such a system also integrating with DB2 databases & SAP. Localization was of utmost importance, double-byte characters problems were solved for Corporate Clients in the Asian Markets.
- Worked with a team of four members to manage several Lotus databases. Created Lotus applications to interface with DB2 databases and SAP. Also, added LDAP's mechanism to provide single-sign-on to the Lotus databases.

High Performance Database Research Center

Miami, FL

Research Assistant

Jul 1998 - Dec 1999

- Worked under supervision of Computer Science P.H.D. candidates to create a Multi-threaded Data Mining System.
- Developed custom socket level API to stream data back & forth from Web Servers.
- Helped create an HTML Parser to facilitate the extracting of the Data from HTML documents.
- Modified API to fix Multi-threading Problems. Allowed hundreds of threads to run simultaneously & extract data from Web Servers by Synchronizing IO Inputs & Outputs.
- Created a signed applet to allow the Applet to extract data from the User's Browser.
- Modified the core API to allow Web Server data mining via proxies to prevent denial access from target Servers.
- Created threaded Java scripts using a custom data mining API to extract content from websites such as amazon.com, mapquest.com & more. Data was then imported into HPDRC Terabyte DB2 Servers for analysis.

EDUCATION:

Bachelors in Computer Science, Florida International University, F.I.U. (Dec 2000)

Operating Systems, Massachusetts Institute of Technology, M.I.T. (2001)

Distributed Computer Systems, Massachusetts Institute of Technology, M.I.T. (2001)

Advanced Software Engineering, Massachusetts Institute of Technology, M.I.T. (2001)

TECHNOLOGIES:

LANGUAGES

- SQL (20+ years)
 - MySQL,
 - PostgreSQL,
 - Oracle, DB2
- JavaScript (20+ years)
 - jQuery
 - NodeJS (1 year)
 - ReactJS (2 years)
 - React Native (2 years)
 - Angular (1 year)
- Ruby/Rails
- PHP
 - CakePHP
- Python
- C
- Objective-C
- Bash
- LotusScript
- PowerShell
- C# (1 year)

SERVERS

- Java (20+ years)
- Spring
 - Spring Boot
 - Spring AMQP
 - Spring AOP
 - Spring Batch
 - Spring Core
 - Spring Data
 - Spring Hateoas
 - Spring Integration
 - Spring LDAP
 - Spring MVC
 - Spring Security
- Guice
- Dagger
- Akka
- Camel
- Struts
- Guava
- Jersey
- Mockito
- MyBatis
- Quartz
- Selenium
- Vaadin

- Web Servers
 - Tomcat
 - JBoss
 - NGINX
 - Apache
- Message Brokers
 - ActiveMQ
 - JBoss Messaging
 - RabbitMQ
- CI/CD
 - Jenkins
 - SonarQube
 - Travis
 - Bamboo
 - Chef
 - Bitrise
- Databases
 - MySQL
 - PostgreSQL
 - DB2
 - Oracle
 - Couchbase

CLOUD

- AWS
 - AWS AppSync
 - AWS Lambda
 - AWS EC2
 - AWS RDS
 - AWS S3
 - AWS VPC
 - AWS API Gateway
 - AWS Elastic Load Balancing
 - AWS SES
- Heroku