

RAJAN SADASIVAN

OBJECTIVE A Staff engineer/architect in Application Services and Platform Development

AVAILABILITY Now

SUMMARY

- Over 20 years of experience in Software Industry, 10 years in Payments/Billing domain
- Lead engineer for android 'pays' and at Digital Labs at American Express
- Mobile push notification aggregator platform
- Checkout platform – ARM, Merchant Authentication, Credentials Services, ThreatMatrix
- Payments Processing domain – ACH, Paypal, Credit Card, EFT, OBT methods
- Billing domain – CSG's Kenan Billing system, EMS – Ebay's Escrow Management System
- Presentation Services – Resource frameworks
- Multi-tenant Scalable SOA services – internal and external
- Full project life-cycle experience from architecture design to production in projects in six Companies - Sun, Sybase, Chase, Cisco, eBay, Visa
- The eSun eCommerce / eBusiness development core team member.
- Real time Trading & Systems Integration.
- Relational Database and Object Oriented Database knowledge.
- J2EE Development experience.

SOFTWARE

OBJECT ORIENTED DESIGN AND PROGRAMMING

Java (14+ years), C++(2 years), UML Modeling

JAVA/J2EE DEVELOPMENT



JNDI/JMS/EJB/ Servlets/JSP/JDBC/RMI, OSGi/REST/Spring/Hibernate

XML/JSON TECHNOLOGY

JAXP/JDOM/Xalan XSLT/XML Schemas, JSON

SERVERS

Tomcat, IBM Websphere, BEA Weblogic 5.1/6.0, Geronimo G3

DBMS & Caching

Sybase 4.9, 11.0.x, Oracle 8.x, 11.x, Trilogy 3.2 OODB

Oracle Coherence

OPERATING SYSTEMS

Solaris, Windows NT 2000, Linux RHEL

SECURITY

AAA Security, Credentials Management, OAuth 2.0, PKI

OTHER PROTOCOLS/Frameworks/Technologies

SOAP, i18N, Struts, Ant, JUnit, JCE, C, Perl, Tcl/Tk, Shell Programming, Maven, Spring, Hibernate

EXPERIENCE

American Express Company, Palo Alto, CA

Mar 2015 – Present

Digital Labs – Senior Engineer I

Dec 2018 – Present

- Architecture and lead role for Digital Labs Department with focus on Wealth Management
- Delivered multiple projects – Amex Explore, Amex Invest, Digital Financial Planning, Roundup
- Created Platforms - Deposit Based Offers Platform, Labs Funds Orchestrator

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- 1 patent application for round up design
(Vert.x, React Java, Microservices, Couchbase, Postgres, JDK11, OAUTH2.0, Kafka, Spring)

Android 'Pays' – Senior Engineer I

Mar 2015 – Nov 2018


- Architecture and lead role for Android and Samsung pays in the department
- Guide team on implementations and code critical patterns
- SDK 2.x coding for diagnostics
- Technical POC for SamsungPay for American Express
- TSP spec designer for android
- Delivered multiple projects for android platform over the years - samsung pay launch, market expansion, versioning design, portal configurations, server side reperso, web instant provisioning, bank app provisioning, KMS design, etc.
- 1 patent application for web provisioning design
(REST, JDK8, Vert.x Non blocking, Microservices, Couchbase, Android SDK, OneAmex React)

VISA Inc., Foster City, CA

Oct 2012 – Feb 2015

Mobile Cloud Services PD – Lead Engineer

Apr 2014 – Present

Responsible for design and development of the aggregator framework for push notifications on **Visa side** of ApplePay () Cloud Based Payments. Very familiar with the architecture of CBP and contributed to the design of CBP core and its domain modeling. Deployed SOA service simulator on AWS for testing round trip through Apple Servers via Internet.
(REST, CXF, tcServer 7, JDK7, Maven, ApplePNS, AWS REST Service)

Visa Checkout/Merchant Team – Lead Engineer

Mar 2013 – Mar 2014

Responsible for design and implementation of Merchant Authentication and Authorization module of Visa Checkout product and of ARM layer; Work involved REST services, Domain modeling, AAA Security, Credentials Management, ThreatMatrix integration, D-DOS prevention. Contributed to Design of Wallet Services Component and its REST API.
(REST, CXF, tcServer 7, JDK7, APIKeys, Oracle, Maven, Hibernate, Splunk)

Content Management Frameworks – Lead Engineer

Nov 2012 – Mar 2013

Responsible for Analysis, Design and implementation of CMS System for V.me website that is REST based. Handling static and dynamic content including images, text, css, js for multiple locales with instant changes.
(Javascript client library, Apache JackRabbit, TcServer 7, JCR, JAAS Authentication, Coherence)

EBay Inc., San Jose, CA

Mar 2003 – Oct 2012

PayPal Payments 2.0 Money SOR – MTS2 Engineer

Nov 2011 – Oct 2012

System of Record is one of core components of PayPal's new payments platform. Responsible for throughput analysis and suggesting changes to the 3 core services TEP, PSS, PRS and the TXN database to meet the SLA and throughput needs of more than 10 million payments a day. Built hierarchical & statistical reporting tool to measure performance metrics across pools based on CAL instrumentation.
(JDK 6, Maven, SVN, Spring, Hibernate, Oracle 11.x, Perl, Hadoop)

Presentation Platform Services – Kernel Engineer

Mar 2011 – Oct 2011

Design & Implementation of Resource Adaptor framework service of the Raptor platform. Externalization of JS/CSS/Images lead to better website speed & performance.
(JDK 6, OSGi, Git, Maven, Geronimo G3, StaaS)

SOA Services – Principal Engr.

Aug 2008 – Feb 2011

Principal designer of SOA services

- Public ResolutionCaseManagement Service at <http://www.developer.ebay.com/support/docs/>.
- PaymentInstrument Service
Architected PCI Zone1 compliant service for handling 16 digit credit card & bank account numbers. Implementation for clients CSR & eBay Police.
- Billing/CS SOA Services
Involved in design of Core Billing Services for accounts, transactions & subscriptions based on Kenan Billing system. Developed large scale customer support services - STTI settlement & billing search.

Global billing – Payment Gateway – Principal Engr.

Mar 2005 – Jul 2008

Responsible for design/implementation of PGW APIs for online debit card pre-notice & instant payment notification, Credit Card APIs, ACH payments for eBay sellers & buyers. Responsibilities included multi-tenant highly scalable architecture, logical database design, batch jobs, payment processor integration, eWallets, Encryption/Decryption & SOA API & Site2GL finance system integration & reconciliation.

Core team designer of eBay's Escrow Management System platform. EMS provides Escrow services, balance management, payment processing, Virtual ledger.

Recipient of awards - Shining star, Blue Moon.

(JDK 1.5, IBM WAS CE, Castor codegen, XML/XSL, Axis2, SOAP, Oracle 9.x, CAL)

Global billing – Payment Gateway – Staff Engr.

Mar 2004 – Jul 2005

Responsible for design and implementation of various projects for eBay Payment Gateway (PGW)

Global Billing Site - Staff Engr.

Mar 2003 – Mar 2004

Designed & implemented website modifications to account status/invoicing module of the eBay's global website <http://www.ebay.com>.

(JDK 1.3, IBM WAS 4.0/WSAD 5.x, J2EE, XML/XSL/XSD, JNI, Oracle 8.x)

Cisco Systems, San Jose, CA

Jan 2002 – Sep 2002

Labview IV Integration – Sr. Java Developer (Contract)

Responsible for integration of Labview IV system with other internal systems – DMS and Deal ID.

Labview IV is a web based tool used for authoring network topologies, scheduling them on real devices in labs, training systems engineers for an eLearning lab experience and doing "demo" to Cisco customers.

Labview used JSP, JavaScript technology with templates and struts frameworks for its front end. Business logic beans talked to Oracle JDBC layer and used connection-based transactions.

In Deal ID integration, the scheduling component of Labview was enhanced so that it was integrated with other Cisco systems like Sales Hierarchy, Customer Database and Deal ID systems. This involved heavy integration work using distributed database access features of Oracle like DBINKS, API specification using PL/SQL packages, functions, cursors and stored procedures. Oracle performance tuning was done.

In DMS integration the "eLearning" user is seamlessly transported via DMS to the remote lab site powered by Labview. The exchange of data between Labview and DMS was specified using XML schema over HTTP transport.

(JDK1.3, JSP, Struts, Tomcat, Ant, Oracle 8.1.x, XML Schema, JCE, UML, CVS, Optimizelt)

Ascential Software, Oakland, CA

Aug 2001 – Jan 2002

Media360 core API - Sr. Java Developer (Contract)

Responsible for design and implementation of the unit test framework for the media360 core API

version 3.0. Media360 is the premier asset management system in the industry. The test framework was designed using UML and Java design patterns and implemented using Java/XML technologies. Involved in design specification of Metadata set module and ACL based authorization module of the Media360 core API. Focus here was Object Oriented Design work with UML.
(JDK1.2, RMI, Enterprise Architect UML, Ant, JDOM, Junit, Jindent, JBuilder, Informix dB, Tomcat, Clearcase)

Lumenare Networks, Sunnyvale, CA

Aug 2000 – May 2001

ELearning Project – Sr. Java Developer (Contract)

Responsible for design and implementation of the administration interface into the Dynamic Remote Lab System (DRL), using JSP & Servlets technology. The administration interface provides a tool to maintain reservations, topologies and security system components like users, groups and acls. Core contributor to the design and implementation of the Lab Management System. LMS uses core J2EE Technologies like JMS, EJB, RMI and JNDI. Architected the session management component of the DRL system..

(BEA Weblogic 5.1, EJB, JMS, RMI, Quick XML, Java Security APIs, JSP, MagicDraw UML, Oracle 8.1.x, Web services, CVS)

Sun Microsystems Inc., Newark, CA

Apr 1997 - Jul 2000

ESun WebDesk Document Generation Service - Architect/Developer

Responsible for requirement analysis, design, deployment of the document generation server for Sun-IT's internal eBusiness project called "WebDesk". The first client of this service is the legal document of sale generator called quoter, which is fully internationalized and generates documents in html/ps/pdf/txt formats. Template based design uses Inetsoft's styling API. Developed the table style DTD, SAX based parser and implementation to handle Sun's complex and custom table layout.

(JDK1.2, XML, Inetsoft's StyleReport, I18N, Servlets, Web services, Oracle 8.x, Solaris 2.7, SCCS)

ESun SunStore Project - Core Developer

Responsible for requirement analysis, design, deployment of leasing module and document generation server for Sun's external eCommerce website <http://www.sun.com/store> called the SunStore.

Contributed to the design and coding of the pricing service by which all of Sun's products sold on the web get their prices, customer contracts and discounts. Fully internationalized application runs on ATG dynamo droplet technology with jhtml technology for its front end.

(JDK1.2, Dynamo Droplets, XML, Trilogy SCBackbone3.2 OODB, Oracle PL/SQL, SCCS)

Sales Desk Project - Migration and Development Support

Migration of existing C/C++ code to Java for the Sales Desk quote-output module to handle both sales quotes and lease quotes.

(JDK1.1, C/C++, Adobe Postscript, Sybase 11, Solaris 2.6)

Sybase Inc., Emeryville, CA

May 1995 - Mar 1997

QuaSR Test System - Senior Test Developer (Contract)

Evaluation of design and code reviews of cases created by junior test developers.

Created Perl, Tcl/Tk based administration tools to track status of development of entire team.

Responsible for many of the feature based test suites development of QuaSR, a distributed testing environment for Sybase's core products: SQL Server 10.0.x, Cougar – 11.0.x and Gryphons – 11.1.x .

(Sybase SQL Server 11.x, 10.0.x, QASQL, T-SQL, CALM, Clearcase, Shell, Sun SPARC, Windows NT, RS-6000, HP-9000, Perl, Tcl/Tk)

Chase Manhattan Bank, NY

Apr 1994 – Apr 1995

Securities Trading System - Systems Engineer

Integration of front and back offices of the Bank's real time securities OLTP trading system.

Multiple feeds of data of different format from sources such as Bloomberg or Inferalgo could be sent to different back office destinations. *Key features* - Sybase Open Server notification mechanism for new

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transactions, error data detection, end-of-day reconciliation for detecting lost trades and efficient data format translation. System consisted of a network of Servers running on Sun SPARC, Windows and Tandem environments and process monitors created using TIVOLI.

(C, Solaris, Sybase 11 Open Server, TIVOLI network management system)

IGENESIS Inc., NJ **PROGRAMMER/ANALYST** **Aug 1993 – Mar 1994**

Object oriented Sybase Database Navigator and Query/Action workbench

Development of an object-oriented GUI navigator for a SYBASE database to perform database browsing, querying and object creation. Front end consisted of C++ classes talking to X/MOTIF widgets. A Transact-SQL parser was developed using C, LEX, and YACC to retrieve database state from files and also for importing/exporting database state.

(C/C++, Sybase 4.9, T-SQL, X/Motif)

EDUCATION

M.S. Computer Science, Tulane University, New Orleans, USA

B.Tech. Electrical Engineering, IT-BHU, India

Cell (408) 420 0870

PERSONAL

Email rajansada@yahoo.com

Address 2622 Yerba Vista Ct., San Jose, CA, 95121

REFERENCES

Available upon request