**Jess (412) 294-8640**

**Microservices, ESB, EAI Camel, CICD, NoSQL and Cloud expert jesseyrajen@gmail.com**

**SUMMARY**

* **16 years** of strong experience in software development involving analysis, design, development, testing and deployment of on medium to large-scale projects.
* Extensive experience in refactoring the function decoupling of business logic from existing monolithic and built microservices (Microapp API's).
* Specialized expertise in designing APIs and web services. Comfortable implementing great user experiences, managing server side scalability and concurrency
* Responsible for the Identity Management, Content Management, Enterprise Architecture, New Product/Technology Introduction and Enterprise Engineering.
* Paved the path to adoption for SaaS, Content Management, Portals, Collaboration, Mobile and other platforms using leading open source products.
* Extensive experience in Requirement capturing, scenario scoping, user story capturing, use cases, specification design, function point analysis, Project Quote Review and various phases of project documentation.
* Extensive design and development experience in areas of Trading systems, Financial Securities, of strong experience in architecting, designing and developing of java web based Rich Internet Applications (RIA) using web 3.0 technologies like Adobe Flex, Webcentre, JSON, Angular.JS, Nodejs, HTML5, Java Script, Python, JQuery,Jqgrid, Web services (SOAP and RESTful) SOA, Spring MVC and J2EE applications in BFSI, PLM, PKI and Telecom domains by setting initiatives for Enterprise Architecture Vision, Strategic Planning, Technology Directions, Change Management, and Team Building.
* Expertise in designing of flex and webcenter based rich web UI and data access layer for j2ee applications using standard JPA annotations with different ORM frameworks like Hibernate, iBatics and spring with different combination based on the client business model.
* Having excellent exposure to work in enterprise security and web security environment and having excellent command on securing the web services (SOA using SAML & SPML).
* Experience working with Event driven architecture with good exposure to complex event processing using Tibco business events and Esper.
* Architected, Designed and developed complex applications utilizing SOA/EAI/ESB stack.
* Excellent understanding of Design Patterns, P4, XSD, Schema, Messaging and EAI Patterns.
* Introduced and Implemented corporate policy for build, deploy, testing, change control, BCP, DR, Code Review and Development practices.
* Excellent Understanding of high availability and high TPS applications using various distributed, redundant, fail-proof and clustered software techniques.
* Extensive experience working with GRID and Cloud computing including Amazon EC2, Google App Engine and private clouds.

**EXPERIENCE SUMMARY**

FIDELITY INVESTMENTS Working as Principle Developer from **Jul-14** to **till date.**

ITCINFOTECH UK - Worked as a Solution Java Architect from **Aug-11** to **Jul-14**.

VIRTUSA - Worked as a Sr. Teach Lead from **Mar-08** to **Aug-11**.

ATLAS SYSTEMS - Worked as a Technical Team lead from **Apr-07** to **Dec-07**.

TRIANZ PVT LTD - Worked as a Technical Team lead from **May-05** to **Apr-07**.

SUNGRACE INC - Worked as a Technical Team lead from **Aug-02** to **May-05**.

TECHDRIVE PVT LTD - Worked as a Technical Team lead from **Sep-98** to **Aug-02**.

**EDUCATION**

* **Bachelor’s in Electronics & Communications Engineering. JNTU Hyderabad, 1996**

**TECHNICAL SKILLS**

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| **Languages/Platforms** | Java, C/C++, Perl, SQL, DHTML, JavaScript, VBA, PHP, BASH, Ruby and WMI |
| **Java/J2EE Technologies** | J2EE (EJB, JDBC, JNDI, JMS, JSP, Servlets, Java Mail), RMI, Swing |
| **Framework/Libraries** | AngularJS, Struts, Spring, Velocity, Tiles, Hibernate, Log4j, ibco Business Works , Apache/Tomcat, COGNOS, Hibernate2, EJB XML, XSLT, AWT, JFC/Swing, RMI, JDBC/ODBC, SOAP, SAML, SPML, BPEL, JBPM,, JDO, Struts, javaFX, Adobe Flex , HTML5, NodeJS, backbone.js, Express.js Bootstrap, , Ajax, JSON, jqGrid, Jquery and GWT., Java assist, apache-commons, Protractor, Jasmine, Grunt. |
| **IDE/Tools** | Webstorm, Netbeans, Intellij, Eclipse, visual studio .net, TOAD and Squirrel |
| **Reporting Tool** | Crystal Reports 8.0,RAS, Jasper, Talend Studio |
| **XML** | Xerces, Xalan, JDOM, DOM, DTD, JAXP, JAXB, Castor, STAX, XSL, XSD, XQuery, XPath |
| **Messaging** | JMS, IBM MQ, Tibco EMS/Rendezvous, Apache MQ |
| **SOA/ WebServices** | SOAP, UDDI, WSDL, REST, SOA, Apache Axis, Jersey, BEA Aqualogic, Apache Camel. |
| **UML Tools/Project Mgt.** | Enterprise Architect, Rational Rose, Visual Paradigm, MS Project, Visio |
| **Database** | Oracle11i, Oracle 9i, Sybase, MS SQL Server, db2, oracle, MySQL, PostgreSQL |
| **OS / Virtualization** | Windows,AIX,Linux,Solaris,hp-ux,tru-64,MacOS,Irix,AFS, Samba, NFS, VMware, VirtualPC |
| **Change Control** | GIT, ClearCase, VSS, CVS, Star Team, SVN, Jira, SharePoint, CMVC, CML |
| **Testing** | Protractor, NodeJS, Rational Suite, WinRunner, JUnit, Staf, jester**,** mockito**,** Selenium, Jasmine andSoapUI. |
| **Performance &Monitoring** | JProfiler, JProbe, VisualGC, Visual VM, jvmstat, Ethereal, FileMon, RegMon, Handle, Tcpdump, SoapUI, Argent, jvmstat |
| **Web/Middle tier servers** | WebLogic, WebSphere, JBoss, MPS, MIT Kerberos, LDAP, Tomcat, Apache, Reverse Proxy, IIS, XAMPP, iPlanet 6.0, Sun One Web Server 6.1, IBM HTTP server, Apache, Domino, Oracle HTTP Server, IIS 5.0, IIS 6.0, iPlanet Portal Server, and Weblogic Portal Server |
| **Security** | SSL, HTTPS, Kerberos (4 & 5) , LDAP, Crypto and JAAS |
| **Oracle** | Web centre Sites, Portal and Content |
| **PKI** | Microsoft CA, Sun Access Manager, Entrust Security Manger, Identity Manager, Entrust Entelligence. |
| **LDAP** | OracleInternetDirectory (LDAP) Server, SunOneLDAPServer, Active Directory, Lotus Domino, Novell LDAP, Siemens DirX and ADAM. |

**EXPERIENCE**

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| **Fidelity Investments, Durham, NC**  **Role – Principle Developer Jul 14 – Till date** |

**Full Stack- End to End**

Fidelity Investments - As a part of Fidelity PI technology, led and in designed architecture for high profile projects on Fidelity NetBenefits, including Loans, E-mail aggregation and user preferences, E-Learning integration, Health and Welfare online enrollment, and Defined Contribution online enrollment and income deferrals. Also participated in design for One Fidelity, the retail side. Responsibilities include managing the production of complete working prototypes in HTML5 and JavaScript, visual design of individual pages using existing and new components, producing IA artifacts including site maps, navigation specifications, clickable screen inventories, alternate scenario documentation, schematics/wireframes, and design review documents.

**Responsibilities:**

* As a part of Fidelity PI technology, led and in designed architecture for high profile projects to refractor for using micro service to make it RESTful, thread-safe, and more configurable on Fidelity NetBenefits, including Loans, E-mail aggregation and user preferences, E-Learning integration, Health and Welfare online enrollment, and Defined Contribution online enrollment and income deferrals.
* Led the architecture and dev team to define and implement test Automation Framework using Protractor, Jasmine and Grunt on node npm.
* Used Docker containers and Jenkins pipeline for X, Y, Z axis high scaling re-factored micro services and used in private, public and hybrid couds.
* Led the architecture and dev team to define and implement test Automation Framework using Protractor, Jasmine and Grunt on node npm.
* Design and implementation of next generation micro services containers using responsive AngulaJS, spring boot and MongoDB.
* Expertise in Performance tuning the production database towards optimal performance based on the changes in the database storage structures due to application change requirements. Monitoring and optimizing the performance of the Database through Database Tuning – Tuning Applications, Tuning Memory, Tuning Disk Usage, and Tuning OS.
* Implemented Apache Camel routes using Camel-Spring XML and Camel-Spring processor beans. These are the core techniques for building web service functionality with Apache Camel. Routes and processor beans are used to implement integration with other Enterprise systems.
* Analyzed cassandra database and compare it with other open-source NoSQL databases to find which one of them better suites the current requirement.
* Wrote different prototypes/data model to map Fidelity’s cloud storage meta data to cassandra data model and do performance analysis. Implement APIs using libQtCassandra to talk to Cassandra database. API functions to insert, search, delete and update (key,value).
* Specialized expertise in designing APIs and web services. Comfortable implementing great user experiences, managing server side scalability and concurrency, designing database schemas and batch processing jobs, and deploying and admin servers. Experienced in building sophisticated distributed systems using REST/hypermedia web APIs (SOA). Product focused and deeply passionate about solving interesting problems.
* Led the team in RESTful web service architecture with Flux as front end design and constructing with JQuery, HTML5, and CSS3 using Spring Web MVC.
* Design and documentation of REST APIs for collection and retrieval of high volume IOT telemetry data. [Cassandra](http://cassandra.apache.org/) data model design for high volume IOT telemetry data.
* Lead the Enterprise Architecture and Engineering group that is focused on best practices, reusable architectures and the definition and adoption of Open Source platforms, and running the engineering for Portals, SOA, Web 2.0, Collaboration, Content Management and Mobile strategies. These include the migration from **WebLogic** to **JBoss** and Stellent to Alfresco. Participate in a Customer Advisory Board for Alfresco ECM.
* Led in designing the RESTful web service architecture with Flex as front end design and constructing with JQuery, HTML5, and CSS3 using Spring Web MVC.
* Defined architecture API for End to End Automation framework using Sahi and Parasoft SOATest to test the complete end to end transaction for different layers.

**Environment: Java 8, JMS, Camel, Jboss Fuse, Cassandra, MongoDB, WOS2, Java, J2ee, Oracle 11g SOA suite, RESTful , AOP, spring MVC, Spring boot, AJAX, Oracle 11g, HTML5, CSS3, Node.js, Bootstrap, Mule ESB, SAML, WS-BPEL, Agile.**

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| **Wall Mart , Bentonville, AR**  **Role – Technical Lead May 2012 – Jul 14** |

**Development - End to End**

Wal-Mart has multiple divisions and departments needs Rich UI based big data high secured systems to support for internal and external users through retail link. Defined front end design with rich web3 technologies with RESTful architecture road maps and multi-tier solution designing for web portal management using spring layers.

**Responsibilities:**

* Led in defining the architecture across the full stack on a large, high-traffic Ruby on Rails application integrated with Media APIs using digital strategy and flex target.
* Led and mentored the team in refractor and implement the existing SOA infrastructure into functionally decoupled domain driven microservices approach to use AWS containers to scale as needed.
* Led and implemented broad new feature sets in the Rails backend, coded frontend functionality in JavaScript, Backbone.js, and Ember.js and implemented UX/UI with responsive HTML5/CSS.
* Led in designing the RESTful web service architecture with Flex as front end design and constructing with JQuery, HTML5, and CSS3 using Spring Web MVC.
* Defined architecture with Ruby on Rails as a JSON API for Backbone.js on the frontend. Hand-rolled Rails user authentication service object, namespace API routes, nested JSON tinplating, Backbone models/collections with Backbone-relational.js.
* Led in designing and implementing system development life-cycles and workflows best practices for maintenance and enhancements for Legacy ASDA systems.
* Led and developed reusable and scalable RESTful web service solutions that fulfill business requirements in a loose coupled service oriented architecture.
* Implemented new Apache Camel routes and extended existing Camel routes that provide end-to-end communications between the web services and other enterprise back end services. Routes were defined in both the Java DSL and the Camel/Spring XML based DSL. Beans used in these routes were a mixture of Java and Groovy source all compiled down to Java VM code
* Implemented content based message router for incoming XML web service requests. The Camel based application routes content between multiple application servers based on values contained in a fixed number of required XML tags. In addition the application is responsible for enforcing a limited number of content rules such as xsd content validation, duplicate content id detection and rejection and URL Decoding.
* Designed and configured Mule integration with JBPM process engine for use in the implementation of Flow Control System of People.
* Led in design and implementing the high scale 3 tier architecture using front end as JQGrid, Jqery, JSON, Spring Web MVC, Node.js and Action Scripts.
* Designed data layers objects populating data using Node.js backbone.js, Jqery, Express.js, JSON and AJAX.
* Involved in building an image asset library using Knockout.js and Backbone.js as part of the same overall project.
* Used Rational Build Forge and Rational Team Concert for project build and deployment.
* Developed [Benchmark](https://github.com/derek/yui-benchmark) testing framework, a JavaScript performance testing toolkit for web and Node.js. Used node.js backend to handle the model synchronization integration with backbone.js.
* Implemented ETL on Hadoop and analytics for Hadoop stack and different bigdata tools, migration from different databases (i.e. Oracle, MySQL) to Apache Hadoop.
* Managed Scrum meeting with multiple teams and maintained burn down chart.
* Responsible for complete project planning, SRCUM backlog creation and planning, and weekly status reports.

**Environment: Java 7, JMS, REST, coherence (data grid), Maven, Team city, Jrockit, Google Protocol Buffer, JMX, spring. dojo. Java, J2ee, Oracle 10g SOA suite, JPA, RESTful , AOP, spring MVC, jqGrid, JQuery, JAX-WS, AJAX, Oracle 11g, HTML5, CSS3, Node.js, Bootstrap, AngularJS, LESS,  RAD , WSAD, Webshere Server, Mule ESB, SAML, WS-BPEL, Agile, backbone.js**

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| **Technical Lead – ITC Infotech, London, UK**  **Client - ASDA Aug 2011 - May 2012** |

**Business Process integration**

Business process defined and implemented with Mule tool allows corporate client and hedge funds to do cross product margining. The project migrated from legacy application over BPM platform while improving existing infrastructure including migrating from legacy cache to BPM. Using CEP event orchestration framework for orchestration and job control, migrated legacy java based ETL

**Responsibilities**:

* Defined and implemented scalable RESTful web service solutions that fulfill business requirements in a loose coupled service oriented architecture works across the full stack on a large, high-traffic Ruby on Rails application.
* Led in design and implementing the high scale 3 tier architecture using front end as JQGrid, JQery, JSON, Spring Web MVC, Node.js, Mashups and Action Scripts.
* Led in designing the definition of business process and work flow integration with Mule configuration.
* Designed TIBCO messaging integration using web services.
* Designed and configured Mule integration with JBPM process engine for use in the implementation of Flow Control System of People.
* Led in design and implementing the high scale 3 tier architecture using front end as JQGrid, Spring Web MVC and action scripts.
* Designed and Integrated reports with operational workflows by embedding Adobe Flex (SWF) applications into custom reports.
* Led in Integrating with Data and Messaging using Flex 4 and Live Cycle Data Services.
* Participated in project execution and release planning in RUP for the team to encourage individual participation of each developer towards project milestone deliverables.
* Worked with Big Data and Hadoop File System (HDFS).

**Environment: Java 6, JMS, Tibco EMS, Linux, Exadata, Oracle coherence, Times Ten, AbInitio, Gemfire,R statistical software, AutoSys, NoSQL Databases Java, J2ee, JPA, Hibernate3, iBatis, spring 3, JBPM, Agile, Mule, JSON, JQuery, JavaScript, Backbone.js, Ember.js, Jasmine, Spring Web MVC, HTML, CSS, Node.js, Bootstrap, LESS, WS-BPEL, Mashups, backbone.js, and RESTFul.**

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| **Sr. Technical Lead – Virtusa, INDIA**  **Client - British Telecom Jan 2011 to Aug 2011** |

**Product Margining Enhancements**

The project mainly for Telecom Industry-Billing & Payments. System will capture Call Data Records from different geographical switches and sends for billing interface through web services.

**Responsibilities**:

* Led in designing the Abstract data Layer for complex data model, as high volume if data needed from external DB.
* Designed materialized views for bulk loading from external source and designed sophisticated cashing mechanism to handle high volume of reference data.
* Led in design and implementing the network mediation cartridges like CC, PC and DC. Used core Java 1.5, spring 2.0 for transaction management, JMS for asynchronous processing, Oracle 10g for persistence layer, UNIX shell scripting for invoking third party binaries.
* Led in design and implementing the ftp and sftp polls, which will collect CDR files and will map to customized ONM nodes to parse and process and will cater the respective billing destinations.
* Handled APDU, IPEX and Ribbit type complex switches as those CDRs in binary format.
* Designed and implemented method and field interceptors using AOP and aspectJ for implementing central logger and security to simplify the integrating and testing different modules.

**Environment: Java 5, Tibco EMS, Apache Axis, Mule ESB, Oracle, Tibco Business Works, Linux RHEL, Web Services, SOA, xml, XSD, SOAP, J2ee, REST, Tibco Business Events, Esper HA, Spring, Weblogic, Emule ESB, Aqualogic BPM, GEMFIRE caching framework, Jboss Drools, Apache Camel.,Esper, Tibco Busines Events, Sybsae 15.1.**

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| **Sr. Teach Lead – Virtusa, INDIA**  **Client - J P Morgan Chase Mar2008 – Jan2011.** |

**FI-General Collateral**

**GC Collaterals are Fixed Income instruments similar to repos** except that one of more collateral assignments are made against the value of the loan after the shell trade is done.

**Responsibilities**:

* Led in design and implementing the Geneva adapter component which is the primary component of the system responsible for loading data and extracting data from Geneva using Core Java , Spring for transaction management, JMS for asynchronous processing, Oracle 10g for persistence layer, Unix shell scripting for invoking Advent Geneva binaries, Weblogic to serve data sources and queues. Used oracle SOA suite for service integration with legacy systems.
* Architected and led EAM (Enterprise Activity Model) a production-level service-based XML and various sub-components of the real-time processing module. This involved identifying the various mapping rules and processing logic for different type of trade and non-trade transactions using MDB for multi-threaded processing.
* Led team in implementing pending account activations and account filtering in Activity Model.
* Architected and led Geneva Utils, a utility for authorized users to access the production data for manipulations using JSON, JSF, jqGrid and JQuery.
* Involved in design and implementation of Account Conversion and Reconciliation (comparing the source file loaded into Geneva with report generated by the Geneva).
* Design and develop various sub-components of the real-time processing module. This involved identifying the various mapping rules and processing logic for different type of trade and non-trade transactions using MDB for multi-threaded processing.
* Involved in integrating in spring Hibernate (JPA annotations). Migrated static data from the database to the code as Java 6 enumerations. Facilitate group problem solving and information sharing through brief regular meetings and weekly lunches.

**Environment: Java 6, Tibco EMS, Apache Axis, Mule ESB, Oracle, Tibco Business Works, Linux RHEL, WebServices, SOA, xml, xsd, SOAP, J2ee, REST, Tibco Business Events, Esper HA, Spring, Weblogic, Oracle 10g SOA suite, JPA, , AOP, spring 2, struts 1.x & 2, jqGrid, JQuery, JAX-WS, AJAX, Ajax anywhere, X-stream, axiom, DB2. WS-BPEL, Web logic 9.2/10, Adobe Flex, Ecliepse, Autosys, Emma, Win-XP, Solaris, Linux, Citrix, Clear Case, VPN and UNIX.**

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| **Technical Team Lead – Atlas Systems**  **Client - DCM HealthCare Apr 2007–Jan 2008** |

**e-Care [ Healthcare Industry].**

As a part of **Doctors/Patients** web connecting as a group, I worked in the capacity of senior teach lead to improve the TD Ameritrade’s web trading tools. Development was targeted towards introducing the new features and migrating current to SOA platform. Various functional modules involved were **appointment, Balances and Positions for the user accounts, Patient health status and tracking system.**

**Responsibilities**:

* Involved in designing and implementing new healthcare system from existing legacy system, which is integrating existing reporting tool with UI
* Developed client specific property pages generating dynamically using backbone objects
* Led in designing and implementing the Validator framework (which is to initialize, validate and save the backbone objects)
* Responsible for creating java handlers for each custom rules created and execute by the Versata Team
* Led in writing ant target scripts to run unit tests and to get the code coverage using JUint with Emma and led in updating the build integrating with Check style, find bugs and continuous Integration(CI).
* Led in orchestrating the BPEL-WS maintain the loose coupling by using JDeveloper.
* Wrote technical documentation describing the Health Vault integration functionality.
* Attended a healthcare conference with other team members to help configure the application for demoing.

**Environment: UML, Java/J2EE, EJB 2.0 (Session, Message Driven), JDK 1.4.0, JDBC, JMS, Xerces, XML, XSL, XSD, Hibernate, Castor, JavaScript, JBOSS 4.0, Java Swing, WebLogic 8.1, Oracle, JBuilder, Test Director, Eclipse, Rational Clearcase, Perl.**

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| **Technical Team Lead – Trianz, India.**  **Client - Entrust Mar 2006–Apr 2007** |

**Equity Trade/Fixed Income Web Trading Development and Enhancement.**

As a part of **equity trading/fixed income** web development group, I worked in the capacity of senior developer to improve the TD Ameritrade’s web trading tools. Development was targeted towards introducing the new features and migrating current to SOA platform. Various functional modules involved were **Order Ticket, Streaming Quotes (level2, request), Balances and Positions for the user accounts, Order status** and **users stock portfolio management**.

**Responsibilities**:

* Analyzing Business requirements for different XML API interfaces, by interacting with third party API clients and business personals, and documenting the workflows.
* Involved in creating Skelton framework.
* Designing, developing and testing of workflow and using Test Director to track defects.
* Design, development and support of the application system in Production environment (Ticket / Issue Handling) and during various SDLC phases.
* Developing Proof of concept, design documentation and providing work / time estimates for design and development efforts.
* Creating sequence, workflow, activity and other UML diagrams.

**Environment: UML, Java/J2EE, JDK 1.4.0, JDBC, JMS, Xerces, XML, XSL, XSD, Hibernate, Castor, JavaScript, WebLogic 8.1, Oracle, JBuilder, Test Director, Eclipse, Rational , Entrust PKI, SAML, AJP13 Connectors and Tomcat.**

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| **Staff software engineer – Trianz, IND**  **Client - Ninja Mobile (HCS) May 2005 – Mar 2006** |

**Mobile Content Management System**

Worked in strength of Staff software engineer in WebSphere group. Project involved porting and re-engineering financial industry’s existing legacy systems to Websphere product suite, Utilizing **Java/J2ee**technology. Many of these projects were using legacy systems and were improved and ported to **java/j2ee/ corba/jms/soap/webservices** platform.

**Responsibilities**:

* Involved in developing of complete Data layer Dao's and VO's for all XML DOM's & Node elements (which uses XML protocols)
* Responsible for SOAP (Apache Axis) based software (publishing and subscribing) web services to be used for communicating with BCGI and CMS Developed CMS Interface which is responsible to ingest Data into HCS DB
* Resolved many performance issues like Jboss clustering, caching and DB connection Optimization
* Developed HCS DB definition reports using COGNOS Reporting tool
* Involved in design and develop of Admin module which using struts and hibernate

**Environment: Perl, C, C++, DHTML, Java, J2ee, UML, IIS, WebSphere, WebSphere MQ, db2, Windows 2000/xp/2003, Aix, staf, java / j2ee / jdbc / jndi /SOAP/WebServices**

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| **Software Engineer – Sungrace, IND**  **Client - VOTW Eaton Corporation May 2002 – Aug 2005** |

Worked in strength of software engineer on complete end to end development and production support on java platform.

**Responsibilities**:

* Resolved multiple browser-related issues like applet loading and streaming media files with the site
* Responsible for LDAP schema creation & Directory Information Tree design to support user authentication and maintenance of user profiles

**Environment: Java, J2ee, UML, IIS, Windows 2000/xp/2003.**

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| **Software Engineer– Tech Drive Inc, IND**  **Client - GAP May 1998 – Jul 2002** |

**Developer**

Worked as software engineer to develop front end using VB and oracle forms.

**Responsibilities**:

* Involved in development of GUI using VB and oracle forms and PL/SQL forms.

**Environment: VB and Oracle.**