

# Nitin Kittanakere L

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## PROFESSIONAL SYNOPSIS

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- **Principal Software Engineer**, around 15 years of Hands-on experience in Full stack Software Development with sound knowledge on various technologies.
- Proficient team player with more than 8 years of experience in Agile Methodologies.
- Exhibited exceptional leadership qualities as a Technology Lead by mentoring, onboarding new members and assisting the Development team.
- Good communication and written skills and able to effectively explain technical requirements to non-technical team members.
- Received several recognitions for showcasing technical excellence and quality during all phases of the project from Concept, requirements, solution design, development, testing, debugging, deployment to monitoring.
- Have co-authored 15 and authored 2 articles published in external journals and. Also co-authored a white paper titled "*An Emotional System for Effective and Collaborative e-Learning*" paper published in ACHI 2011, France.
- Have worked in Research and Development with Infosys Technologies Limited, Bangalore and offered several trainings on varied technologies with a very positive feedback from the participants.

## TECHNICAL EXPERTISE

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Key Technologies	Java, NodeJS, SpringBoot, JavaScript, Angular
Continuous Integration	Jenkins, Git, Maven, Nexus, Artifactory, Fortify and SonarQube
Cloud Related Technologies	Kubernetes, Openshift, Docker
Versioning Tools	GIT, CVS, Subversion, Surround SCM
Testing Tools/Frameworks	ReadyAPI, Postman, Junit, Jasmine
Other Java Related Technologies	Java EE (JSP/Servlets/EJB), Java EE Web Services (JAX-RPC, JAX-WS and AXIS), Java Persistence API (JPA), Hibernate, iBATIS, Java Server Faces (JSF), Struts, Spring, Java Message Service (JMS), JAX-RS, Castor
Databases/Cache Technologies	MySQL, MongoDB, Oracle, Interbase XE ElastiCache
Application Servers	WebSphere Application Server 6.0/8.0, Glassfish, JBoss, Tom EE
Web Servers	Tomcat

IDEs	Visual Studio Code, IntelliJ, Eclipse, RAD, RSM, Netbeans, IBM Broker Toolkit and Enterprise Architect
Tools and Other Applications	MongoDB Compass, SourceTree, Swagger, Vagrant VMs, Bitbucket, Jira, Confluence, SOAP UI, XML Spy, Fortify Audit Workbench, RFHUtil, DeSign for Databases, EDI Editor, JProfiler, Seapine's TestTrack and Surround
Other Areas	Familiarity with Backbase Platform, JSON, Splunk, Datadog, Adobe Analytics, Liquibase, Visio and PlantUML for creating Design Diagrams, XML, HTML, DHTML, UML Modeling, Ruby, Ruby on Rails, IBM Message Broker technology

## EDUCATION

Bachelor of Engineering in 2007 on Computer Science from **Visvesvaraya Technological University**, Belgaum, India with an aggregate of **77.86%**

## CERTIFICATIONS/AWARDS

- AWS Cloud Practitioner Certification in 2021
- Credo Awards: Have received several Credo for a job well done at Citizens assignments.
- Sun Certified Programmer for Java Platform, Standard Edition 5.0 passed with 83%
- Sun Certified Web Component Developer for the Java Platform, Enterprise Edition 5 passed with 98%
- Have won the spot award from Infosys and received several appreciations at the account level by the Customer for the hard work and dedication shown towards the work.

## TRAININGS

- Red Hat OpenShift : Containers & Kubernetes (DO180) in January, 2022
- Getting Started with React on PluralSight in March 2022
- Core Python on PluralSight in December, 2021
- Getting Started with Angular on PluralSight in December, 2021
- AWS Cloud Practitioner Training in September, 2021
- Complete NodeJS Developer Course on Udemy in 2019

## EXTERNAL PUBLICATIONS

1. iBatis, Hibernate, and JPA: Which is right for you?  
An article published in [www.javaworld.com](http://www.javaworld.com/jw-07-2008/jw-07-orm-comparison.html?page=1) which compares two of the most popular open-source persistence frameworks iBatis and Hibernate and discusses how JPA fits in the Persistence Tier in building Java applications.  
<http://www.javaworld.com/jw-07-2008/jw-07-orm-comparison.html?page=1>
2. New Features in Java Server Faces 2.0

A series of **five** articles published in [www.developer.com](http://www.developer.com) focusing on the new and interesting features in the Java Server Faces 2.0 released as part of the Java Enterprise Edition 6 platform.

- i. <http://www.developer.com/features/article.php/3867851/JSF-20-Views-Hello-Facelets-Goodbye-JSP.htm>
- ii. <http://www.developer.com/java/web/article.php/3868226/JSF-20-Annotations-New-Navigation-Eliminate-XML-Configuration.htm>
- iii. <http://www.developer.com/java/web/article.php/3869281/JSF-20-Creating-Composite-Components.htm>
- iv. <http://www.developer.com/java/web/article.php/3870686/Inside-JSF-20s-Ajax-and-HTTP-GET-Support.htm>
- v. [http://www.developer.com/features/article.php/52691\\_3880151\\_1/JSF-20-Bean-Validation-and-Dependency-Injection.htm](http://www.developer.com/features/article.php/52691_3880151_1/JSF-20-Bean-Validation-and-Dependency-Injection.htm)

3. A Versus Column on JPA 2.0 and Hibernate

A Versus column which comprises a series of **four** articles published in [www.developer.com](http://www.developer.com) compares Java Persistence API 2.0 and Hibernate with a set of interesting features like Caching, Criteria Queries, Bean Validation and Locking.

- i. <http://www.developer.com/java/ent/article.php/3892261/JPA-20-Cache-Vs-Hibernate-Cache-Differences-in-Approach.htm>
- ii. <http://www.developer.com/open/article.php/3893771/Criteria-Queries-in-JPA-20-and-Hibernate-The-APIs-Have-It.htm>
- iii. <http://www.developer.com/java/ent/article.php/3896851/Bean-Validation-in-Hibernate-and-JPA-2.htm>
- iv. <http://www.developer.com/java/ent/article.php/3897331/Pessimistic-Locking-in-JPA-2-and-Hibernate.htm>

4. New Features in JPA 2.0

A series of **four** articles published in [www.developer.com](http://www.developer.com) which focuses on the latest and interesting features of the Java Persistence API 2.0 released as part of the Java Enterprise Edition 6 platform.

- i. <http://www.developer.com/features/article.php/3898336/The-Top-5-New-Annotations-in-JPA-2.htm>
- ii. <http://www.developer.com/features/article.php/3902911/Querying-in-JPA-2-Type-safe-and-Object-Oriented.htm>
- iii. <http://www.developer.com/java/ent/the-jpa-2-enhancements-every-java-developer-should-know.html>
- iv. <http://www.developer.com/java/ent/getting-started-with-eclipselink-and-jpa-2.html>

5. White Paper titled "*An Emotional System for Effective and Collaborative e-Learning*"

The white paper authored by me and two of my colleagues published in ACHI 2011 France which describes an emotional based eLearning model.

[http://www.thinkmind.org/index.php?view=article&articleid=achi\\_2011\\_12\\_20\\_20093](http://www.thinkmind.org/index.php?view=article&articleid=achi_2011_12_20_20093)

6. Project Coin: "Small" Java 7 Tweaks, Big Dev Gains

This article published in [www.devx.com](http://www.devx.com) focuses on the smaller Java 7 enhancements, which are at the heart of Project Coin; which make the Java language much simpler for developers.

<http://www.devx.com/Java/Article/47634>

7. Java Multi-threading and the Challenges of Parallel Computing

This article published in [www.developer.com](http://www.developer.com) focuses on the multi-threading model which is used in Java prior to Java 7 release and the various challenges which are faced during parallel computing

<http://www.developer.com/java/java-multi-threading-and-the-challenges-of-parallel-computing.html>

#### 8. Java 7 Fork/Join Framework

This article is the second in its series published in [www.developer.com](http://www.developer.com/java/java-7-forkjoin-framework.html) concentrates on the Fork/Join framework introduced in Java 7 and how it addresses the challenges which were faced in parallel computing in the previous release of Java.

<http://www.developer.com/java/java-7-forkjoin-framework.html>

## PROFESSIONAL EXPERIENCE

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### Intelligence Servicing Platform

**Company:** Citizens, Johnston, RI  
(June 2021 - Present)

#### Principal Software Engineer

Design and Develop Micro services and Micro front end services to support the new Intelligence Servicing Platform built for Assisted Channels. Leading the Engineering team with around 15 team members which included mentoring, reviewing the work, making design and development decisions, training and helping individuals.

This Platform is built for Assisted Channels at the Bank and enables providing next gen functionalities which includes the usage of Event based architecture, Smart prompting, enhanced authentication etc.

**Technologies Used:** NodeJS, SpringBoot, Angular, Swagger, OpenShift, Docker, DataDog, ElastiCache, MySQL RDS, MongoDB, Drools, Junit and Jasmine for Unit tests, Postman for API Testing

- Designing and developing Microservices in NodeJS and SpringBoot to be deployed on AWS managed using Openshift PaaS
- Implemented Circuit Breaker pattern for microservices in NodeJS.
- Responsible for creating the starter applications in NodeJS and SpringBoot which can then be forked by other Engineers for their respective Microservices. Starters included the complete framework, unit tests,
- Documented all the best practices, standards and patterns to be used by the Engineering team.
- Worked on the detailed design for the Intelligence Servicing Platform.
- Created a prototype for Rule engine implementation with Drools and integrated with SpringBoot microservice.
- Implemented Unit test coverage of 85% on all microservices.

### Project Mercury - DIGITAL Transformation

**Company:** Citizens, Johnston, RI  
(September 2019 - Present)

#### Principal Software Engineer

Design and Develop Micro services and Micro front end services to support the new Online and Mobile Applications. As a Tech Lead, lead the development efforts, mentor, train and guide team members.

Primary Goal of this project is to build a Cloud based Online and Mobile banking application and move away from the current monolith application which is based on the Java EE application

developed by a Vendor. As part of this project, Backbase Platform is leveraged to accelerate the development and market the product faster.

**Technologies Used:** NodeJS, Angular, Spring Boot, Backbase Platform, Swagger, Kubernetes, Docker, Splunk, DataDog, Adobe Analytics,

- Design the best-in-class omni channel APIs using REST standards keeping both Technical and Business considerations.
- Develop NodeJS, Spring Boot micro services and micro front end services using Angular.
- Use all the Industry and Digital best practices during development and perform thorough code reviews for the Code delivered by the team.
- Create detailed design for the features by creating the Swagger contracts, sequence diagrams, design decisions, option analysis.
- Drive solution approach by working closely with Architecture team and Business partners
- Write good unit tests and ensure that maximum code coverage is achieved by using Unit testing technologies like Junit, Jasmine, Mockito.
- Mentor the team and coaching the Team members and helping new team members during the onboarding process.
- Effectively articulate technical requirements to non-technical team members and translate the Business requirements into a technical plan.
- Lead the team by example and help the team members in overcoming any technical challenge.
- Proactively monitor the environment and identify any areas of improvements in the memory and CPU Utilization, abnormal behaviors in the API etc.
- Documenting all the findings wherever necessary and knowledge sharing.

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**Consumer Lending Modernization (CLM)**

**Company:** Citizens, Johnston, RI  
(October 2017 – August 2019)

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**Lead Application Developer**

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Design and Develop Micro services using Spring Boot. As a Tech Lead, lead the development efforts, mentor, train and guide team members.

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As part of this project, my team was focused on delivering the Trouble Logging in Flow, along with building the capability for Loan customers to make one time payments and schedule automatic payments in Online Banking Application. This was one of the biggest initiatives for the bank in the year 2017-2018.

**Technologies Used:** Spring Boot, Swagger, ReadyAPI, IBM WebSphere Application Servers

- Create the Swagger design for the APIs using REST principles and review with the team.
- Develop the micro services using Spring Boot.
- Use Junit, Mockito for writing unit test cases
- Write ReadyAPI Scripts for the API testing.
- Lead the development efforts for the pod by assisting the team and guiding them in doing things the right way.
- Deliver quality code by ensuring that there are no Prod issues and meets all the SLAs.
- Assist the QA and Application Support team during testing and deployments respectively. Creating the process that will help for a smoother and repeatable deployment process.

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**SSO Wealth Project****Company:** Citizens, Johnston, RI  
(April 2017 – September 2017)**Lead Application Developer**

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Design and Develop Micro services using Spring Boot

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As part of this project, my team was focused on implementing SSO from Citizens website to NFS (Vendor) that houses the Wealth accounts and to show the wealth account information in the Home page.

**Technologies Used:** Spring Boot, Swagger, ReadyAPI, IBM WebSphere Application Servers

- Design and Develop Spring Boot APIs.
- Use Junit, Mockito for writing unit test cases
- Write ReadyAPI Scripts for the API testing.
- Lead the development efforts for the pod by assisting the team and guiding them in doing things the right way.

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**SMART Software****Company:** Smart Management Inc., Providence, RI  
(July 2014 – April 2017)**Senior Applications Developer**

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Research and Development for Smart-X Product. Design and develop new features for the Smart's EHR Software.

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Smart's Electronic Health Record (EHR) Software mainly focuses on Outpatient Substance Abuse Treatment, Mental and Behavioral Health firms and offers its clients the ability to manage completely paperless medical offices. Smart Software provides the ability to manage everything starting from patient admission, medication management, medication dispensing/dosing, medical orders, managing medication inventory, urine screening, blood work management, third party billing, electronic signature management and reporting.

**Technologies Used:** Core Java and Java EE Technologies, Spring Data JPA, DBUnit for Unit Testing, Liquibase, Mirth Connect, Spring RMI, SLF4J and Logback, JPA Criteria, Java Swing API

- Providing advanced application software development services for the existing application and for the next generation application of the Smart Software.
- Research and development for next generation Smart Software which included database comparison research and framework research.
- Researching and developing Smart API for Smart X product.
- Smart Bridge – Working on building a Middleware component using Mirth Connect for laboratories to post UA and Blood work results. Messages are exchanged using HL7 format
- SME for Continuous Integration related questions and management of tools.
- Came up with the Git Branching model when Git was newly introduced at Smart.
- Work with Product Management during release planning; closely work with Business Analysts for requirements, responsible for application design and implementation, and coordinate with the Quality Assurance team for testing, work with the Implementation Team during project rollouts.

- Achieving production targets that align with the Agile Software Development process.
- Contributed and led the development, testing and deployment of ICD-10 project. This was a challenging project as the project had tight deadlines since it had to be rolled out to all Smart's customers due to government regulations.
- Mentoring and training the team with new technologies. Took the lead initiative in maintaining document repository for the Development team at Smart on Atlassian's Confluence.
- Took the lead in the development of Smart Data Layer component which is used to access the database independently.
- Contributed to the success of another important project at Smart which provided the ability to configure and manage new medications. Smart Software initially did not have the ability to add and manage any new medications. This project provided the ability to add, manage, medicate and bill new medications. This was challenging since the core of the product was modified and impacted all the areas of the software.

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### **Project TAM**

**Client:** TAM Airlines

**Company:** Amadeus North America Inc. Waltham, MA  
(November 2013 – July 2014)

### **Software Engineer**

Designing and developing Java EE Web Applications

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**Technologies Used:** Java EE Web technologies, Spring MVC, Apache Tiles, JavaScript, HTML, JQuery

- Designing, Developing, Unit testing and documenting Java EE Web Application for Brazilian TAM Airlines.
- This project involves using Java EE Web technologies including, Java Servlets, JSP and other Java EE web technologies like Spring MVC, Apache Tiles. This project also includes usage of client-side technologies like JavaScript, HTML.
- This project is very complex due to several use cases which comprises Booking, Rebooking and rebooking with points and interaction with several backend to pull the data.
- This project provides me an opportunity to implement and test the web tier of the Java EE application architecture.

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### **Middleware Assignments**

**Client:** RBS Citizens Bank, Cranston, Rhode Island

**Company:** Infosys Limited.  
(May 2011–November 2013)

### **Technology Analyst and Designer**

Designing and developing Java and IBM Message Broker web services

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**Technologies Used:** Java EE Web Services (JAX-WS, JAX-RPC, AXIS, Castor), XML, Hibernate, Spring, JMS, EJB, IBM Message Broker platform, JSP, Servlets, JavaBeans, CMOD, ODWEK, JAX-RS, Oracle Database, DB2 and SQL Server database

- Have designed Java web services and developed using JAX-WS, JAX-RPC, Apache Axis and Castor for several projects. Also designed and developed IBM Message Broker service.

- Developed POC sample REST services using JAX-RS and JSON.
- Designed and/or developed the web services for the following **projects** in the bank:
  - **Middleware Upgrade**
    - The main purpose of this project is to upgrade the Middleware platform from WAS 6.0 on Java 1.4 to WAS 8.0 on Java 6. Migrating Java based web services from Java 1.4 to Java 6 is a very challenging task as there are so many Java language changes which had to be considered. This project is very critical and complex from the developer's and Bank's perspective.
    - Have worked on establishing standards for Java code migration and various process improvements.
    - Have taken the lead role in migrating all the Java services. Another important challenge here was the services were built using Castor/Axis/JAX-RPC and the services were migrated to JAX-WS. All the code migration standards were considered.
    - This project also gave me an opportunity to use the newer APIs of Java which I had explored while writing articles on Java.
    - Have taken the lead role in testing all the Java services and coordinating with the Integration team when the services are migrated to the higher region.
  - **Online Banking and Mobile Alerts**
    - This project was mainly focused on storing the real time alert preferences for online banking customers and sending the alerts generated at the host to customers' real time. Alerts were generated at the batch mode and due to compliance and customer experience perspective this project was very critical to the bank.
    - This project involved two Middleware services to maintain the real time customer alert preferences and to send the real time alerts to the online banking user.
    - The design involved several technical research and analysis because of the complexity of the services.
  - **Agent Desktop**
    - This project was mainly focused on building and modifying Customer Care or Customer Service System (CSS) applications.
    - Middleware provided the interface to the several backend systems and services and hosted/modified web services and broker services to the Agent Desktop applications.
    - My role included designing and developing IBM Message Broker services and Java services.
  - **IVR Survey**
    - This project was focused on recording and storing Call Center Survey calls which is done by IVR system which invokes Middleware services to store the survey calls results.
    - This project was one of the most critical ones for the Middleware team as there were several design and development challenges.
    - Implemented the timeout constraint for the service consumer was implemented for the first time. Several discussions and analysis finally ended up in reaching out to IBM for their assistance. IBM finally stated that the timeout cannot be exact on the WAS server which was one of the learning.
    - Developed two Java services using Hibernate.



- **CMOD Process Improvements**

- This project mainly focused on upgrading the IBM Content Manager On Demand (CMOD) server which stores all the bank reports and statements.
- This was one of the critical projects from Bank's perspective and the Middleware CMODWebService had to be rewritten.
- Developed the service using the new ODWEK API.
- Approach and implementation were appreciated by the Senior Management.

- **Java Code Scanning Vulnerability Framework**

- Designing and implementing a Java framework which can be used to overcome the code scanning vulnerability which gets identified by Code Scanning tools like Fortify or Veracode.
- It is a great initiative by the bank in fixing the security issues to ensure that the hackers will not be able to hack into the bank's system.
- This project gave me an opportunity to learn and understand the OWASP Security Vulnerability framework and ESAPI (Enterprise Security API).
- Modifying the code to reduce the risk of being vulnerable to attacks was the main task.

- **Green and Business Green Checking**

- Designing and implementing a Java web service for the Green and Business Green project.
- The service was built using Hibernate and was used to get the waive codes associated with a product from DB2 database.

- **Commercial Loan Replacement Program (AFS)**

- Commercial Loan Replacement Program was one of the biggest initiatives in the bank to replace the old SHAW system (Mainframe)
- Designed a web service capable of carrying SOAP with a PDF attachment object.
- This project was the first of its kind in the bank and was never implemented before.
- Gave a good understanding on the various options available for SOAP with Attachment and various ways of handling the PDF attachment. Major challenge in this service design was it involved third party applications
- Developed several POC applications to ensure that the best solution is designed to the project team with JDK 1.4 and WAS 6 environments.
- The service design was very well designed and was appreciated by both Client and the project teams.

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**Malicious Code Detection Tool**

**Client:** Encore, Infosys Technologies Limited,  
Bangalore, India  
(October 2010 - April 2011)

**Java Developer**

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**Technologies Used:** Java 6, Eclipse plugin development, PMD, EcEmma

- As part of various project deliveries, it was decided to check if the project delivery has any malicious code, and this Java tool was developed to identify such code.

- Developed as an Eclipse plugin to detect the malicious code which could be part of the client deliverable, not defined as part of the requirement.
- Major challenge involved was to define the malicious code
- The tool uses EcEmma (Java code coverage tool for Eclipse) for code coverage and PMD for static code analysis and is also involved in defining customized rules for PMD.

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#### **Solution Design Services (SDS) Assignments**

**Client:** RBS Citizens Bank, Offshore,  
Bangalore, India  
(April 2010- September 2010)

#### **Web service Designer**

Designing IBM Message Broker web services

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**Technologies Used:** RSM, Design Principles, UML

- Working in the SDS team, gave me an immense opportunity to learn and understand the intricacies involved in designing a web service.
- Two projects which I worked on: Common Enrollment Platform, CD Early Withdrawal penalty.

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#### **Education & Research (E&R) Projects**

**Client:** E&R Unit, Infosys Technologies Limited,  
Bangalore, India

#### **Java Developer, Component Developer, SCRUM Member**

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**Technologies Used:** Core Java, Java EE, Google API, UML, MySQL database

1. **INCOPS – Component Workbench** (July 2009 – March 2010)
  - a. A component workbench assignment which involved in building a repository of reusable components where components can be added and removed.
  - b. This project was based on the Component Based Software Development platform which concentrates on the paradigm on re-usability and replace-ability.
  - c. This project gave me exposure to UML Modeling using Enterprise Architect tool.
2. **Infosys Bus Routes Guide - SCRUM Project** (January 2008 - June 2009)
  - a. A SCRUM based project which involved in building a system using Google Map API to display the Infosys bus routes between any two given points in Bangalore and the timings of the Infosys buses at any bus stop.
  - b. This assignment provided an opportunity to understand the SCRUM process and SCRUM artifacts like Product Backlog, Sprint Backlog and Burndown Chart etc.
3. **Java tool for Code Optimization** (June 2008 - December 2008)
  - a. A completely core Java based tool which detects the Java code for best practices in coding, including naming conventions based on org wide and industry wide Java coding standards and use of deprecated APIs and provides a PDF report.
  - b. This tool which is based on Java Reflection API is built with a maintainability aspect where legacy code is different to maintain as it lacks best practices and concentrates only on the business logic.

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**Developing Business Tier Applications using  
Java EE Technologies**

**Client:** American Express, Offshore, Bangalore  
**Company:** Infosys Technologies Limited  
(January 2008 - May 2008)

**Java Developer**

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**Technologies Used:** EJB 3.0, EJB 2.0, JPA, MySQL database, HTML, Java EE (JSP/Servlets)

- An end-to-end research for developing a training material for the AMEX client on “Developing Business Tier Applications using Java EE Technologies”
- This project involved building various business tier components (Enterprise Java Beans or EJB's), JPA as ORM technology and the difference between EJB 2.0 and EJB 3.0 components.

#### **OTHER ACCOMPLISHMENTS**

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- Offered over 100+ days of Classroom training At Infosys Technologies Limited involving both role-based trainings and foundation program on the various Java technologies like: Hibernate Framework, Java Persistence API, iBATIS Framework, Java EE Web Services, Java Message Service, Java Server Faces, Java EE Architecture, Java and Advanced Java Programming and Servlet Programming and Java Server Pages
- Successfully completed the Pilot Batch of Component Based Software Development (CBSD) on Java EE platform training at Infosys Technologies Limited, Bangalore in 2007.