

Karthik Shanmugam
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Qualification Summary:

- Experienced Results-driven Software Engineer with over 20+ years in the software industry and a strong focus on the financial domain. Proven expertise in troubleshooting complex business problems, delivering high-value strategic initiatives, and providing world-class customer experiences. Seeking to leverage my technical and managerial skills in a challenging role in a forward-thinking software company to drive business objectives, deliver exceptional customer experiences, and lead high-performing teams.
- Expertise in Software Development Life Cycle (SDLC) process in the areas of Analysis, Design, Development, Implementation, and Testing of Software Applications using Java/J2EE technologies.
- Strong analytical skills, with a track record of resolving complex business problems and Production Incidents.
- Demonstrated ability to deliver business objectives within strict timelines.
- Excellent People leadership skills, with experience coaching and managing teams to achieve business goals.
- Expertise in Java/J2EE, Azure, Spring Boot, Kafka Streams, REST, Microservices.
- Proficient in Agile development (TDD, and SCRUM) methodologies.
- Good Knowledge of different J2EE Design Patterns like MVC, Factory, Data Transfer Object / Value Object, Business Delegate, and Singleton.
- Strong Experience in Oracle 9i/10g including PL/SQL, SQL, JDBC, Stored Procedures, Triggers, functions, and packages.
- Proficient in Automation Testing and DevOps tools such as Jenkins, UCD.
- Constantly updated with the latest technologies and implemented the same for improving operational efficiency.
- Ability to handle multiple tasks and to work independently as well as in a team, experienced in interacting with Business/Technology groups.
- Co-Author of IBM Redbooks: <http://www.redbooks.ibm.com/abstracts/sg247548.html?Open>. with focus on Service Oriented Architecture (SOA) integration between subsystems.

Certifications:

[Microsoft Azure Solutions Architect Expert \(AZ-304\).](#)

[Microsoft Azure Developer Associate \(AZ-204\).](#)

[Microsoft Azure Administrator Associate \(AZ-104\).](#)

[Microsoft Azure fundamentals \(AZ-900\).](#)

[Google Cloud Digital Leader.](#)

Sun Certified Java 1.6 programmer.

Skill Set:

Programming Languages/API/Tools	J2EE, Java, SQL, JAVASCRIPT, C, C++, TopLink, Hibernate, Python, WebServices using JAXB/REST.
Databases	DB/2, SQL SERVER 7, Oracle
Platforms	VM Ware Tanzu, Pivotal Cloud foundry, Azure, GCP
ApplicationServer	Websphere 8.*, Websphere Z/OS 6.*, Tomcat, Jetty
Modeling Tools	Rational Application developer, Visio
Version Control Tools	Github, Cmvc, VSS, CVS, Subversion

Testing Mercury Test director, Junit, JWebUnit, JIRA, SoapScope (Webservices Testing), SoapUI (WebServices Load testing)

Education

Degree	Major	Institution	Year of Graduation
B.S.	Computer Science	Government College of Technology, India	May 1993
M.S.	Computer Science	University of New Mexico, Albuquerque, NM	May 1995

Work History

Company	Position	Location	Period
Wachovia/Wells Fargo Bank	Lead Software Engineer	Charlotte, NC	October 2003 – current
JD Edwards & Co./PeopleSoft	Software Engineer	Charlotte, NC	March 2000- Oct 2003
Ajilon	Consultant with Wachovia Corp.	Charlotte, NC	Aug 1999- Feb 2000
Enovia Corp.	Consultant	Charlotte, NC	Aug 1998- Aug 1999
IBM Corp	Consultant	Charlotte, NC	May 1995- Aug 1999

Job Experience History (Detail)

March 14 to current

WellsFargo Bank: Develop solutions for supporting crown jewel flows/complex enterprise wide information technology solutions implementing with an Agile hands-on engineering for the middleware application “Account and Product Services(APS)”. Designing and engineering cloud native solutions (WF applications PTAU, CACT) using 12-factor,PAAS and microservice principles. Ensuring all WF technology standards, policy, control points and governance are adhered to protect Wells Fargo’s technology environment. Guide 5 member application development team through execution to modernize APS application including strategy, coaching and help in upskill.

March 10 to March 14

WellsFargo Bank: Applications systems engineer for Home and Consumer Finance group at WellsFargo Home mortgage.Design and Implement frontend and server side capabilities for the CORE product in the Product Pricing and Prepaids domain.Technology/Framework being used includes GWT,J2EE,Hibernate,Java,maven,continuos builds,Junit,JIRA. Responsibilities also include lead through capabilities and drive them to completion. Mentoring junior developers, clarifying requirements with Business and guide in building an optimal technology solution with minimal defects.

March 06 to March 10

Wachovia Bank: Responsibilities include supporting a J2EE based Integration Hub application which enables Web Services infrastructure in a zOS WebSphere environment. Provide technical guidance, mentorship, training, client on-boarding, Application life-cycle support, SOAP and XML version management, Software Design and Development adhering to the SDLC process, performance tuning, application troubleshooting, interviewing candidates and making hiring recommendations, evaluating and offer recommendations on new languages/technologies/frameworks. Develop proof of technologies to expand mainframe integration access to include DB2 on mainframe, native copybook and 3270.

June 05 to Feb 06

Wachovia Bank: Creation of multi channel printing solution software which provides for a messaging based interface to merge and print documents from five different channels. Responsibilities include J2EE software design development, performance tuning, application troubleshooting, mentorship and training to the support group. Used Iterative software development with working deliverables at the end of each cycle with continuous course correction.

Oct 03 to June 05

Wachovia Bank: Design and development of back office loan origination and processing system called CLASS. J2EE frameworks/technologies used are Struts, MDB’s, Stateless Session beans, JWebUnit for unit testing the Web front end and Junit EE for unit testing the business logic in EJB container.

Development of Caching configurations using Toplink Object Relational mapping tool and the necessary business logic to support back office loan origination system.

Design and development of migration of Wachovia Voice Response Unit from a legacy system to Java

Web Service based system. Technology used: IBM's JAX-RPC web service generation toolkit, Junit and Ant. Used agile software methodology with pair programming and small iterations of well defined functionality. Used a common standard (WBXML) for accessing the mainframe and distributed resources.

March 00 to Sep 03

Software Engineer, JD Edwards & Co. I was a key member of the Framework group responsible for the design/development/ maintenance of the complex web based, highly customizable, meta-data driven Enterprise software providing CRM solution. The architecture involves JSPs posting to a controlling servlet that uses the MVC2 paradigm to build the model (presentation) using the data obtained from Enterprise Java Beans (EJB). The software development lifecycle incorporates methodologies from a combination of the Unified Process and Extreme Programming process techniques. The technologies used are J2EE 1.2, Toplink, IBM WSAD, and Together J modeling tool.

August 99 to February 00

Java server design/developer for the E2 Enterprise Call center application for First Union. Responsible for code and development on object- oriented, n-tier, stateless architecture of Product named E2 which is designed to support First Union Sales and Support. The application runs on and uses HTTP, XML, servlet, JDBC and TopLink for Java technologies. Used API's provided in the XML4J parser in the VisualAge environment for Building the XML files and the Document DOM object CORBA API's to parse the DOM object.

Developed an efficient relational model using TopLink to map the Java classes into the tables and provide APIs on the broker to access the data suitably. Develop/configure servlets to encapsulate objects to maintain database connection pools and instances of Cimphony to communicate with the mainframe hosts. This entire project used the Visual Age IDE with the Webshphere Test Environment.

May 95 to August 99

ProductManager Research/Development/maintenance. Responsible for code and development on client-server, object-oriented, 3-tier application (ProductManager (PM)) especially in the fields of Item and EngineeringChange applications. These applications incorporate such concepts as data versioning, configuration management (using complex algorithms such as Rules-Based Configuration and Product-Unit Effectivity), EC data lifecycling, and flat file import/export. Responsibilities include bug fixes, resolving business process issues with the customer and provide support for critical issues in the production environment of the customer.

Project Sub Details:

12/97 to 8/99:

Client: GEC Alsthom, France.

Responsible for design and development of "Rules Based Configurator". This feature provides ability to model enterprise products using product classes, their functional characteristics and an association of product into rules based functional hierarchy. This feature provides the ability to generate a precise product definition for a given set of customer ordered characteristics. Design and development of "feature based intelligent reuse" of items for Rules Based Configurator (RBC). This application incorporates ability to reuse existing configurations that were generated from a previous order, for any given new order.

10/96 to 11/97:

Client: Lexmark. USA.

Implement concurrent engineering support. This feature provides for simultaneous manufacturing updates to the product cycle during the design phase of the product thus reducing cycle times and reducing costs by making changes earlier in the design process.

10/95 to 10/96:

Pratt and Whitney. USA.

Design, develop, implement and support Serialized build tracking feature into product manager. This feature provides for maintenance of actual physical assemblies in the ProductManager database and support features for install, peg, disposition, rework, transfer of assemblies from one structure to another.

5/95 to 9/95:

Responsible for benchmarking ProductManager.

Responsibilities include providing data for fine-tuning the ProductManager applications and the database

by providing benchmark results for insert, update, and delete operations on ProductManager objects and the order of the operations and fine-tuning databases for optimal performance. The technology used in implementing these features are Perl scripts to automate generation of flat files to import into the ProductManager, creation of data sets to measure the benchmark, system optimization utilities, database optimization utilities (reorg) for db2.