

GUNJAN GANGWANI

EXPERIENCE SUMMARY:

- Working as a Senior Software Engineer for Mediaocean from July 2012.
- 10+ years of experience as Lead Programmer implementing JVM/Web based solutions.
- Experience in Functional programming JavaScript and related frameworks.
- Strong hands on experience in Object Oriented Programming and Modeling.
- Strong hands on experience in Core Java programming using Java 5, 6, 7.
- Strong hands on experience in Data Structures, Algorithms and Design Patterns.
- Strong hands on experience in writing SQL's and Query performance tuning.
- Strong hands on experience in Scalable Java Multi-threading/Concurrent programming
- Experience in Java Script frameworks libraries like AngularJS, Knockout.
- Experience in building Web AJAX Applications using Twitter Bootstrap, CSS3, and HTML5.
- Experience in using Application framework like Spring and ORM framework like Hibernate.
- Experience in building Rest API using JAX-RS and knowledge of Scala Play.
- Experience in Agile Methodology and Test Driven Development (TDD)
- Experience in using database tools like ORACLE/PLSQL.
- Experience in building application using NoSQL technologies like MongoDB.
- Experience in build management using JENKINS, Quick build and Maven
- Experience in source control repositories like Git, SVN, and CVS.
- Experience in Apache Lucene based text Search and boosting search indexes.
- Experience in Linux based Development Environment, Ubuntu.
- Experience in building UI based application using GWT, Eclipse RCP, and Swing API.
- Experience in JVM Performance tuning using toolkits like Jmeter, Yourkit.
- Experience in XML APIs like JDOM, DOM, SAX, JAXB, Xpath, and EMF Persistence.
- Experience in Caching Systems like Java Caching system (JCS), EHCACHE.
- Knowledge of Scala and Akka.

TECHNOLOGIES:

Core Languages	: Java, JavaScript SQL, Scala.
Web Frameworks	: JAX-RS, GWT, Spring, Hibernate, Lucene Elastic Search, JSP-Servlets.
JavaScript Frameworks	: AngularJS, Knockout, LodashJS, Require, JQuery, ui-routers
Web Front End	: HTML5, CSS3, Bootstrap, Less.
Desktop Front End	: Swing, Eclipse Plugin Development (RCP).
Scripting Languages	: Shell Scripting.
Databases	: Oracle 11g, MongoDB, PL/SQL
Messaging Tools	: Rabbit MQ, TIBCO, SWIFT.
Source Control	: Git, SVN, CVS.
Development IDEs	: IntelliJ, Eclipse.
Build Management	: Jenkins, Quick Build, Maven, Grunt, Bower
Testing Frameworks	: Junit, Jasmine.

EXPERIENCE:

MEDIAOCEAN LLC, New York
Senior Software Engineer

July 2012 - Till Date

Prisma is a web application used by ad agencies to manage and execute the ad campaigns. It has the complex flow for creating/managing campaigns, placements and suppliers. It integrates with various adservers like mediamind, double click to automate the process of campaign execution and ad management. It involves the financial module that handles calculations and automatic payroll generations to the agencies and clients with mainframes integration on the backend.

Radia is a web based advertising platform used by the Agency Trading Desks like Zendesk to combine the buy and sell side platforms for advertising. It allows the users to create Demand Side Platform and a Supply Side Platform to be able to handle complete advertising workflow automatically and efficiently.

Responsibilities:

- Worked on migrating GWT based frontend into AngularJS based application.
- Implemented client side routing using Angular ui-router.
- Used Twitter Bootstrap CSS3/Less for frontend layouts and controls.
- Involved in performance tuning of JavaScript front end to reduce memory consumption and loading speed.
- Developed REST API using JAX-RS for campaign and placement management using Java Spring Framework.
- Used Hibernate ORM framework to handle persistence of various entities like Campaigns, Placements, Suppliers, Clients etc.
- Involved in SQL performance tuning to increase the latency and throughput.
- Used Git Repository to manage application code.
- Used Jenkins, Quick build, Splunk as build management tools.
- Followed Test Driven Development model (TDD) by using Junit and Jasmine.
- Used MongoDB and Oracle11g.

Technologies: Java 7, JAX-RS, Angular JS, GWT, Spring, Hibernate, Oracle, MongoDB, Twitter Bootstrap, HTML5, CSS3/Less, JQuery, Git, SVN, Splunk, Jenkins, Quickbuild, Junit, Jasmine, Rabbit MQ.

Knight Capital Group, New Jersey, USA
Associate (Full Time)

March 2011 – June 2012

GSS (Global Settlement Systems) is an Swing based Java application under KCS (Knight Clearance System) that helps the brokers to clear and settle the equities, fixed income equities and options to handle after processing of trades. The trades are received either through live feed or trade feed from various internal trading applications and the updates on trade status is communicated to various partners like CITI, JP Morgan Chase (through SWIFTs), OCC, NSCC (through FIX), Bloomberg for securities etc.

Responsibilities:

- Used Core Java and Java Swing API to develop GUI.
- Used SWIFT custom look and feel and developed custom components for rich looking UI.
- Used UNIX/shell and Cron jobs to develop backend scheduled processes and jobs.
- Used JCS to support caching of data at the application startup.
- Used Java Multi-threading and actively involved in performance enhancement.
- Used PL/SQL programming to handle the business logic on the Oracle database side.
- Used TIBCO messaging to communicate messages across various components in the application.
- Worked on developing complete modules of OPTIONS and FIXED INCOME trading.
- Worked on enhancing report generation and faster execution of SQL queries.
- Worked on a module to connect to Equilend that handles the auto borrows and loans through MQ's and XML. The messages like login, error payload etc. are transferred in XML format.

Technologies: Eclipse, Java Swing, Unix/Shell scripting, Cron Job, Quartz, PL/SQL, TIBCO, Oracle, Spring framework, XML, JAXB, XSD, TIBCO

Global Foundries, Malta New York, USA
Sr. Software Engineer (Full Time)

April 2010 – March 2011

Data Analyzer is an eclipse based RCP application used by the semi-conductor engineers to analyze data coming out of the Fabs. Statisticians used this tool to analyze processes such as identifying good /bad lots, wafer position analysis, binning, distribution of data etc. Uses caching/compression techniques to handle voluminous data.

Responsibilities:

- Used Eclipse Resource API to store projects/EMF models to support persistence.
- Used EMF ecore for chart models and EMF persistence.
- Used GEF to automate import and export of data.

- Used HDF5 for metadata to support caching/compression of data file system level.
- Used Tee-Chart API for box plots, histogram, Pareto charts etc.
- Created framework to support complex mathematical functions using JEP (Java Expressions Parser).
- Developed GET (Generalized Extract Tool) a Java Swing application used by engineers to run the extracts and pull specific data of their interest from the Data Warehouse. Worked on implementing caching, enhanced the application based on user feedback

Technologies: *Eclipse RCP, EMF, GEF, Charting API like Tee-Chart, Chart Director, EMF persistence, HDF for caching and compression of data, Preferences, Java 6, Eclipse 3.5, SVN, Oracle 10g*

Entertainment Partners, Burbank LA, USA
Java Consultant

Oct 2009 – April 2010

EP Everest is a Java Swing based payroll application and uses Web Services, EJB, JPA, and SQL Server on the backend. Responsibilities

- Created application life cycle framework using Swing Application Framework.
- Created Custom Controls from scratch by extending JComponent.
- Used Pixel Level programming for custom controls shape calculation.
- Written algorithm for applying multi-level gradient to custom controls.
- Worked heavily on resolving threading issues related to Event Dispatch Thread.
- Developed custom error framework to replace the message dialogs.
- Created Beans binding framework using Spring.

Technologies: *Eclipse RCP, Core Java, Eclipse, Java Swing, Swing Application Framework JSR 296, Java Beans Binding JSR 295, Java CSS, XML*

BMC Software, San Jose CA, USA
Java Consultant

July 2009 – Sep 2009

BMC BladeLogic is an Eclipse RCP and Swing based application that handles scheduling of jobs and automatic management of servers and applications remotely. It uses Eclipse embedded Swing components.

Responsibilities

- Created Eclipse UI Look and Feel Framework by Extending Eclipse Presentation API.
- Created Advanced SWT Custom Controls from scratch.
- Used Swing JGoodies API for embedded UI controls.
- Created Notification Framework for handling notification from background threads.
- Created Multi-threading Framework by Extending Eclipse Jobs API.
- Used Java Concurrent API to support multi-threading.
- Followed Agile Methodology.

Technologies: *Java, Eclipse Plug-in Development, RCP, Preferences, Presentation API, Swing, SWT, JFACE, SWT_AWT, Agile, XML, XSD*

Swiss Post, Switzerland
Senior Eclipse Developer

March 2007 – Feb 2009

Sesam is an Eclipse RCP based banking application designed to facilitate the front office operations of the **Zurich Bank**. The banking process resembles a finite state automaton where there could be multiple ways to reach the accepting state from the start state.

PF Reka is an Eclipse RCP based application designed to help users to perform an account search on various criteria's. The event communication is based on publisher and subscriber theory replaced with eclipse framework using Eclipse commands and adapters.

ATG is a Testing tool developed to test the RCP applications capable of capturing the user events and automatically recording them in persistent storage which can later be played back. The user could also add verification assertions to check the functionality of application.

The **GUI Test Enabler** was used in Eclipse IDE to replace the java annotations in the application code to a test enabled code to be used by ATG tool to record and playback the test case scenarios.

Responsibilities

- Played Application Lead role.
- Used Eclipse Commands and adaptor framework.
- Used Eclipse Search Framework.
- Used Eclipse EMF for Object data modeling.
- Developed the detail design document using the UML diagrams
- Used SWT Draw2d API to draw flow graphs.
- Created Eclipse PDE build system to automate export process.
- Used Eclipse AST parser for replacing the Java Annotation with Test enabled code.
- Created User defined annotation using Java 1.5 Annotations.
- Created generic deployable plugins for RCP applications and Eclipse IDE.

Technologies: Java, Eclipse Plug-in Development, RCP, GEF, SWT, JFACE, EMF, JDK1.5 Annotations, SQL, Clear case, XML

United Air Lines, Elk Grove Village, IL
Eclipse Plugin Developer

Jun 2005 – Feb 2007

ORION & NGPR are based on **RCP Eclipse Platform** designed to maximize revenue by setting optimal seat inventory levels using path-based demand forecasts, network optimization, and allowing frequent updates to the passenger values in concurrence with pricing actions. ORION stores voluminous data as well as historical bookings, current bookings, and forecast of future demands. The ORION system is accessed through windows-based, graphical user interface (GUI) tools.

UAX cost Infrastructure is an **Eclipse RCP** based application that deals with the contracts United has with other airlines. It automates the complex process of generating the invoices that reflect total amount united pays to the other carriers derived through a series of complex calculations which was being done manually.

Responsibilities

- Involvement in creating a Custom Table using SWT (similar to KTable/Nebula Grid).
- Used Java Caching Service (JCS) for caching data mechanism
- Created Sorting Framework for sorting more than 100k records using in memory HSQL db.
- Created common plugins for Eclipse workbench framework for the RCP UI.
- Used Eclipse/OSGI Extension Point for framework creation.
- Built Reporting Framework to display more than 100k records by implementing Java Caching Algorithm.
- Involved in application performance tuning using Java JProfiler profiler tool.
- Used KTable to support features like column, row merging etc.

Technologies: Java, Eclipse Plugin Development, RCP, SWT, JFACE, JCS, HSQL, JProfiler, XML, XSD

Google, India
Software Engineer

Aug 2003 – May 2005

XML Comparator is a **Java swing** based application used to track all changes made to an xml file, identifies and displays the differences like additions, deletions and modifications made to them.

LRN is a **web based application** used by Sphero to collect and store employees and Task information in an organization

Responsibilities

- Used Java Swing for creating desktop based application.
- Communicated with the client directly for the requirements.
- Analysis and Design of the tool using UML and worked on the development.
- Used DOM/SAX XML Parsers.
- Supported generation of reports into .csv and .html formats.
- Built a XML configurable GUI to allow dynamic menus/toolbars etc.

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- LRN: Involved actively in adding modules like Attest using JSP/Servlets, Struts framework where the status of the certifications can be changed to completed or decline along with links to various Info pages giving information about the employees, certifications and campaigns.

Technologies: Core Java, Java Swing, XML, DOM/SAX, XSD, Struts2.0, JSP, Servlets, JavaBeans, HTML, Java Script

EDUCATION

Master of Science in Information Technology, Andhra University, India.