# Bill Tsay
## Senior Core JAVA/Scala Developer

## Java Expertise
JAVA 2EE
CORE JAVA
OOP, A&D
Scala
Big DATA
Hadoop / Hive
HBase, Cassandra
Kafka
Spark
Oracle
CVS / JMS
JavaScript
Windows
UNIX
WebSphere
  Application
UML / HTML / XML
Servlet
JDBC
Apache struts

## Education
Master's degree in
  Cybersecurity
  Program -
  Computer
  Science, New
  York University
Master's degree in
  physics science,
  Tsinghua
  University,
  Taiwan,

## Certification
Sun Certified
  Programmer
Splunk Certified
  Architect
Appian BPM
  Certified
  Designer
IBM Certified
  Specialist – IBM
  WebSphere
  Application
  Server

## SUMMARY

Sun Certified JAVA Development professional and seasoned software development developer/architect with over 15 years of experience in designing, developing, and implementing Java applications using Core JAVA principles like Multi-threading, Concurrences, Memory Management, Collections, etc., along with extensive hands-on experience with OOP while using technologies like Java, Python, Cassandra, Kafka, etc.

### HIGHLIGHTS

- Experience of leading Core Java, Scala, JPA, Hibernate, Portal and Spring framework to the entire development team members
- Hands on experience developing large scale enterprise applications using Core JAVA and Java/J2EE technologies like EJB, JMS, JTA, JDBC, Servlets, etc.
- Extensive experience with all phases of Big Data programming, design and analysis in Spark, Hadoop, Kafka etc data pipeline open source stack.
- Hands on experience of developing Java applications in UNIX environment and platform
- Involved in Java REST client API, JavaScript, UI components, Python Web Application Modulization, and Architecture Design and Development at Splunk.
- Extensive application development experience in the financial services industry.
- Led the team to perform the development of the entire project based on project plan, schedule and deliver the project on time through the entire software development cycle by using Java application.
- Extensive experience of over 10 years utilizing SQL Server, Oracle, IBM WebSphere, Cassandra and other relational databases for storage purposes

### SCORECARD

| Skills | Years of Experience |
|---|---|
| Professional IT & Software Development Experience | 20+ |
| Core Java | 15+ |
| J2EE \| EJB \| JMS \| JTA | 10+ |
| Oracle \| SQL Server | 10+ |
| Spring \| Hibernate | 5+ |
| XML | 10+ |
| HTML | 10+ |
| Scala \| Kafka \| Spark \| Hadoop | 3+ |
| Angular.JS | 1+ |

### PROFESSIONAL EXPERIENCE (NON-CHRONOLOGICAL ORDER)
**JAVA/Scala Big DATA Consultant**                                          **Sep 17 - Present**
**CISCO Systems Inc., Milpitas, CA**

- Extensively used Scala and Apache Spark with data injections such as Kafka to develop Analytics of DasDATA
- Utilized Spring boot along with Spring Framework for component-oriented development and Dependency Injection infrastructure

- Use Spring Boot as REST webservice in war packages and deployed within Karaf
- Extensively work in the DasDATA & DasCODE cloudified environment to leveraged Big Data stack to generate notifications, reports and dashboard for the management
- UsedApache Karaf as OSGI component container and runtime
- UsedCassandra and Relational databases for storage purposed
- Utilize Docker/Kubernates as production environment

**Principle JAVA/Scala Machine Learning Consultant**                                           Jul 16 – Aug 17
**SOLRUP, Cupertino, CA**

- Responsible for using Apache Open Source, Spark, Hadoop, Scala, Open API (Swagger) and popular Machine Learning Libraries
- Successfully developed an extended module to support Hadoop in loading and persisting data through hibernate
- Explored opportunities such as Social Analytics that runs in clients' environment or public cloud to provide analysis and development of customer/product sentiment analysis profile
- Developed application such as Social Miner that can analyze social media stream for competitor weakness and strengths for business needs

**Java / Python Lead**                                           Aug 11 – Jun 16
**Splunk, San Francisco, CA**

- Responsible for architecting and developing Java applications with development team in various projects.
- Involved in architecture design and development for Python Web Application Modulation, Java REST client API, JavaScript (Foundation, AngularJS, NodeJS etc.), UI components, AJAX REST client API and Django.
- Responsible to isolate problems, diagnose and troubleshoot issues, monitor performance and service levels, connect transactions across different components of the infrastructure
- Involved in Information Retrieval Engine in REST web service protocol design and implementation.
- Responsible for Big Data analytics, Hadoop, Hive, Solr, HBase, Cassandra with large data volume, IoT Manufacturing SCADA dashboard and KPI implementation.

**Application Architect**                                           Feb 10 – Jul 11
**D&B, San Mateo, CA**

- Responsible to architect and develop the next generation of risk management system based on OSGi, SOA, web services and transactional system to provide the client and server application integration portal
- Involved in research and development of new Service oriented architecture with OSGi R4.2 and Development of OSGi services in springDM, Apache Felix embeded into Jboss etc. highly scare modular SOA systems.
- Built the framework to support the business development team to develop the portal application, web services, ESB event driven solutions for the enterprise application.

**Senior Core Java Lead**                                           Jun 08 – Jun 09
**Social Network Site Nixle.com, San Francisco, California & New Jersey**

- Responsible for planning, researching, managing and developing the highly transactional web site nixle.com and internal portal system for the nixle.com with its vendors, partners to deliver secure, reliable messages to consumers
- Provided the knowledge of Core Java, SEDA Architecture, ServiceMix ESB, hibernate, groovy, grails, portal, cache and spring framework to the entire development team members.
- Responsible to design and architect the entire structure and architecture of website nixle.com and internal portal and data access objects using hibernate services to meet the business requirements.
- Designed, managed and architected the highly transactional system with high capability of SMS and email delivery, failover and workload balanced, grid, cluster computing environment.

**Senior Core Java Developer**                                    **Jan 08 – Jun 08**
**E-Commerce Web Site Overstock.com, Salt Lake City, Utah**

- Responsible is to plan, research and develop the high transaction web site overstock.com and internal portal system for the overstock.com ecommerce retails line of business with many enhanced features, shopper behavior research, search engines etc.
- Led Core Java, JDA, Hibernate, Portal and Spring framework to the entire development team members.
- Involved in designing and architecting the entire structure and architecture of website overstock.com and internal portal and data access objects using hibernate services to meet the business requirements.
- Oversaw the future development of e-commerce high transactions line of business and provide the further web application services for the team

**JAVA Web Service Lead**                                         **2005 – 2007**
**MFormation, Edison NJ**

- Provided extensive technical knowledge to the entire development team members
- Designed and Architected the entire structure and architecture of web services to meet the business requirements
- Developed and maintained the entire web services project and port it to different platform such as WebLogic and JBOSS etc.
- Developed VASP application with mm7 soap messaging client and server.
- Prognosticated the future development of web services and provided further web services for the company's needs
- Developed JMeter plugin to support web services testing and security token manipulation
- Integrated other systems based on customers' requirement
- Implemented Security services & Single Sign On by using features from axis 1.3 that was based on pipeline design pattern with a serial of message handlers to manipulate the incoming and outgoing SOAP messages, this included WS-Security, user token, encrypted message etc.
- Used WSIF external web services invocation framework that allowed to invoke many service components with different protocol including web services, EJB, JMS, etc. from the exposed WSDL of each component with a revised version that was developed
- Utilized SOA/SCA services design and development to standardize API, service design with SCA (service component architecture) and service binding framework so that a universal service locator could locate services from varied binding protocols such as EJB, WS, Hibernate, SDO, etc.

- Used JBI for java universal message bus development that allowed to bind service components with unique interface and to communicate with each other, this enterprise message bus was extended to serve a cross hosts messaging system with MQ technology

**Java/J2EE Developer**                                     **2001 – 2004**
**JPMorgan Chase, New York & Houston**

- Set up a development team in Houston area for developing the project.
- Responsible to design and architect the entire structure and architecture of global pipeline to meet the business requirements.
- Established the development standards, approaches, and code the common framework including Presentation, MVC, Logging, exception handling, Persistence and database scroll modules, Java DAO etc.
- Designed & Developer Java applications on UNIX platform.
- Built SOA (Service oriented architecture) for registering web services to other applications.
- Performed the code review, refinement with developers and tutoring & training.
- Managed the development team, deployment of application through SIT, UAT and production processes.
- Designed and architected the entire structure and architecture of Famis to meet the business requirements.
- Conducted system management and deployment procedures and provided assistance for disaster recovery etc. issues.
- Led the team to perform the development of the entire project based on project plan, schedule and deliver the project on time through the entire software development cycle.

**JAVA Development Lead**                                       **2000 – 2001**
**Deutsche Bank, New York NY**

- Developed a standard framework for web information delivery system, primarily based on MVC pattern with command/event driven and message passing technology
- Developed web-based interfaces for Trade Enquiries, Manual Trade Entry and Cancel/Corrects, Static Data Enquiries, Fails/Pending views, and Profile views
- Proposed and designed a standard "look and feel" for SPEAR web front-ends
- Codified the standard in a SPEAR style guide to be used by interface developers within other SPEAR projects
- Designed and developed a cross-platform trade tracking and settlement system
- Transitioned Deutsche Bank's back-office capabilities from a localized, application-centric deployment to a global business architecture
- Enabled Deutsche Bank to increase profitability through the pragmatic implementation of new functionality and automation
- Reviewed GUI designs for standards and quality
- Provided Java Bean/JSP/Servlet templates for Tables, Drop Down Boxes, Text fields, and Radio Buttons Sets & Check Boxes and "Quick Start" Developer's Guide
- Built and maintained SPEAR project intranet site

**Application Development Consultant**                              **1999 – 2000**
**IBM T. J. Watson Lab, Hawthorne, NY**

- Provided Java Bean/JSP/Servlet templates for Tables, Drop Down Boxes, Text fields, and Radio Buttons Sets & Check Boxes and "Quick Start" Developer's Guide
- Developed various plug-in modules embedded into web servers for data collection, parsing and log generation
- Designed visualization of data analysis and content management from database
- Modeled standard database scheme for business intelligence analysis
- Reviewed GUI designs for standards and quality