



Bill Tsay

KEY COMPETENCE

Software Development
Lifecycle Management.

High Performance Team
Building.
System Integration and
Technical Supports.

Enterprise and Business
Model Architecture.

New Product Research and
Architecture.

Emerging Technologies and
Solutions.

SKILLS

Big Data Analytics in Hadoop,
Spark, Solr or Druid platforms.

Spring Framework, Spring
Boot.

Machine Learning Algorithm
and Framework, System
Design.

Multiple years' experience in
Java, Python, C/C++,

EXPERIENCE

SOFTWARE CONSULTANT • CISCO • 2017.09 – 2019.05

DasCODE/DasDATA is a cloudified open development environment to provide a holistic integrated development experience while focusing on accelerating time-to-capability and increasing operational efficiency. We are the team to design and build platform, applications, as well as the security, integrity and manageability from an enterprise infrastructure.

Platform as a Service is the capabilities provided to the developer to deploy onto a cloud infrastructure, developer created, or acquired applications, and development environments created using programming languages and tools supported by the provider. The developer does not directly manage, or control the underlying cloud infrastructure; including network, servers, operating systems, or storage, but has control over the deployed applications, and environments.

On the other hand, DasDATA monitors all activities in DasCODE cloudified environment and leverage Big Data stack to generate notifications, reports and dashboard for the management.

The technology we use including Apache Karaf as osgi component container and runtime. Spring boot, Spring Framework for component oriented development and Dependency Injection infrastructure. Spring Boot as REST webservice in war packages and deploy within Karaf. Scala and Apache Spark with data injections such as Kafka to develop Analytics of DasDATA. Storages include Cassandra and Relational databases. We use docker/Kubernetes as production environment.

PRINCIPLE SOFTWARE ENGINEER • SOLRUP • 2016.07 – 2017.08

Solrup is a dream company established by school professor and classmates with great idea in AI software juggling probabilities of machine learning from social media and text data.

We are exploring a few opportunities such as Social Analytics that



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Javascript, Scala etc popular programming Languages.

OSGi Highly Modular Java Systems.

Portal, CMS application and systems, IBM Websphere, JBoss & Weblogic.

Trading settlement systems, Financial Information Transaction and Portal System.

E-commerce high profile, transaction heavy web site system.

Web services integration, security and single sign on.

Business Process Workflow and Notification System.

Enterprise Information Integration and Web Services System.

Information Retrieval and Application Performance Monitoring System.

SCADA, Manufacturing Data Analysis and Dashboard. Business to Business Messaging System.

Application migration and performance monitoring.

runs in clients' environment or public cloud to provide analysis and development of customer/product sentiment analysis profile.

Further application such as Social Miner that can analyze social media stream for competitor weakness and strengths for business needs.

Technology used includes Apache Open Source, Spark, Hadoop, Scala, Open API (Swagger) and popular Machine Learning Libraries. I have successfully developed an extended module to support Hadoop in loading and persisting data through hibernate.

SENIOR SOFTWARE DEVELOPER/LEAD • SPLUNK • 2011.11 - 2016.6

Splunk is specialized in the context of monitoring large scale, distributed mission critical applications and systems. Industries use Splunk in many ways: to isolate problems, diagnose and troubleshoot issues, to monitor performance and service levels, to connect transactions across different components of the infrastructure and to provide operational insights about the application that aids in IT and business decision-making. Many of these uses would traditionally have been categorized as "Application Performance Monitoring" except that Splunk does more than just monitor the application - it also makes the data relevant to operational decision making.

My role is to architect, develop with development team in various projects. The responsibilities include

- Information Retrieval Engine in REST web service protocol design and implementation.
- Java REST client API, JavaScripts (Foundation, AngularJS, NodeJS etc), UI components, ajax REST client API.
- Data ingestion technologies that significantly added to the bottom line of the company. From VMware add-ons, to database connectors, to manufacturing and internet of things, to event generators that simulate events from those systems.
- Commercial Product Splunk DB Connect allows Splunk to pull data from relational databases (<https://splunkbase.splunk.com/app/2686/>) and vice versa. With more than 50 thousand downloads from enterprise customers, it is probably the single most valuable app at Splunk.
- Business Analytics Design and Implementation.
- IoT Manufacturing SCADA dashboard and KPI implementation.
- Blogs I wrote for Splunk in POC projects are at <https://www.splunk.com/blog/author/btsay.html>



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BEFORE 2012, CANADA/US WORK PROFILES

Senior Consultant, dnb.com, D&B, California
Architect Consultant, nixle.com, California
Senior Consultant, overstock.com, Utah
Project Manager, JPMorganChase, New York/Texas
Consulting, Deutsche Bank, New York
Consulting, IBM, New York/Canada

EDUCATION

MASTER OF CYBERSECURITY/COMPUTER SCIENCE • NYU

Java Big Data Implementation, Hadoop, Spark, Spark Stream, Cassandra, Kafka, Financial Data Streaming and Scala Avro conversion with Kafka.

R Machine Learning, H2O engine, SVM, k-means, ANN Deep Learning, Text Mining, Topic Modeling and deep learning.

Platforms includes Cloudera, standalone and cluster with VMs.

<https://github.com/billtsay/bigdataclass>
<https://github.com/billtsay/kafka-avro> (Scala Project)
<https://github.com/billtsay/final-exam>
<https://github.com/billtsay/class-project>
<https://github.com/billtsay/project-1>
<https://github.com/billtsay/project-2>
<https://github.com/billtsay/win-demo-opcua> (Python Project)



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