

JESSICA CLAIRE

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SUMMARY

- Backend Engineer offering 11 years in the IT industry with a focus on product design and development. Extensive knowledge of **ElasticSearch, MongoDB, Logstash, Kafka, Microservices and Core JAVA**
- Designed and developed full-text search platform using NoSQL **ElasticSearch** engine, allowing for much faster, more scalable and more intuitive user searches in domains include Product Documentation search (www.docs.vmware.com), Marketing/Sales accelerating product (www.b2bsignals.com) and Social Sentiment Analysis among others
- Experience in using **Logstash-Kafka-Logstash** as a messaging system
- Design and implemented **Spring Boot Micro-services**
- Experience in creating custom **Apache Nutch** plugins
- Used **Apache Tika** for parsing HTML, PDF content
- Worked on **SmartLogic** components like Classification Server to classify content
- Hands on experience in NoSQL technology like **MongoDB** (CRUD Ops, Indexing, Replication, Aggregation, Sharding, various ops manager activity)
- Used **Memcached** which advocates web app nodes to be independent and self-sufficient (Shared Nothing Architecture)
- Proficient in JAVA, Object Oriented Methodologies
- Worked on **InfiniDB** to enable performance-intensive analytics on social media posts.
- Hands-on experience in analyzing, optimizing, and tuning the performance of the application using Java Profiler like **Yourkit, JAMon**
- Experience in delivering project using **Agile Methodology**
- Experience in a public cloud like Amazon (**AWS EC2**)
- **RDBMS** experience includes Oracle, DB2, PostgreSQL, MySQL and programming using PL/SQL, SQL
- Experience in automation and integration tool like **Chef, Jenkins**
- Good understanding in writing **Python** Scripts and Shell scripts
- Hands on experience in log monitoring tool like **Splunk, Graylog**

EDUCATION AND TRAINING

Bachelor of Science: Computer Science, 2005

Sardar Patel University - Vallabh Vidya Nagar, GJ

CERTIFICATIONS

- SCJP JDK 5 (Sep 2007)
- C100DBA: MongoDB Certified DBA Associate Exam (Dec 2016 – Present License 636913252)

SKILLS

- **JAVA:** OOD, Threads, Collection, Junit, log4j, JAVA Mail
- **Web Services:** Spring Boot REST, Apache AXIS, Mule ESB REST
- **Tools:** ANT, Maven, GIT, JMeter, Chef, Jenkins, Chef
- **Methodology:** Agile (Rally, JIRA)
- **Hadoop Ecosystem:** Kafka, Zookeeper, Apache TIKa
- **SQL DB:** Oracle, MySQL, PostgreSQL, DB2, InfiniDB
- **NoSQL DB:** MongoDB
- **ELK Stack:** ElasticSearch, Logstash, Kibana
- **Web Crawler:** Apache Nutch

EXPERIENCE

Back-End Developer, 05/2017 - Current

Aecom – Duluth, MN

Project: PowerMe Product

- Design and development of Micro-service REST API
- Migrated API written in ES ver 1.7 to ES 5.x
- Optimized response time by introducing Hazelcast/Guava caching mechanism

Environment: ElasticSearch, Logstash, Core JAVA, Spring Boot Micro-services, docker, Hazelcast and Guava cache

Search Developer, 10/2016 - 04/2017

Two95 International Inc. – Philadelphia, PA

Employer: Enquero Inc.

Project: CDF (Content Delivery Framework)

- Led ground-up full-text search engine design and development
- Configured Messaging Queue using Logstash-Kafka-Logstash between various micro service modules which helped to handle back-pressure
- Designed to provide local based search in 11 languages including Japanese, German, Chinese (Simplified and Traditional) and Spanish.
- Design and implementation of Spring Boot Micro-services like SearchService (search data from ES) and FeedService (Index data into ES).
- Responsible for installing and troubleshooting Elasticsearch and Logstash
- Used web crawler Apache Nutch to crawl Knowledge Base site and indexed crawled data into ElasticSearch
- Wrote custom Apache Nutch plugins like sending data to Logstash
- Parsed documents(HTML and PDF) using Apache Tika
- Classified documents using Classification Server before sending data to ElasticSearch
- Cleaned up ElasticSearch query logic with Search Template
- Implemented micro service to read data from ElasticSearch using REST Java API
- Design and Implemented DidYouMean search, Suggestions, Auto-complete, Search Highlighter, Boosting search result, More Like This Query, Synonym Search
- Created various utility scripts in Python like creating indices, Re-indexing data from one index to another, creating back-up of indices

Environment: ElasticSearch, Logstash, Kafka, Core JAVA, Spring Boot Micro-services, SmartLogic Classification, Ontology Editor, MongoDB, Kibana , Perforce, Python, Apache Nutch, Apache Tika, docker

MongoDB DBA, 06/2016 - 09/2016

Salient Crgt – Fayetteville, NC

Employer: CIGNEX-Datamatics Inc

Project: Nitrogen - PAAS based product

- Responsible for providing support as a MongoDB DBA
- Experience in configuring MMS
- Configuring and monitoring replica sets
- Optimizing database/query performance
- Created scripts to identify missing Config entries, enable/disable balancer during balancer window
- Managed 9 Shards having more than 10TB of data
- Log monitoring and in-depth analysis using Splunk

Environment: MongoDB, Chef, Python, MMS, Splunk

ETL Developer, 10/2015 - 06/2016

Opentext Corporation – Virtual, DE

Employer: CIGNEX-Datamatics Inc

Project: B2B Signals

- Responsible for design and implementation of ETL jobs
- Implemented utility to download JSON files from AWS S3 buckets to MongoDB
- Design and implemented Spring Boot Micro-services of each ETL modules like acquisition, cleaning, association, NER, Indexing etc.
- Used MongoDB to store intermediate data of each step.
- Indexed data into Elasticsearch to provide free full-text search.
- Integrated Kibana with Elasticsearch to analyze indexed data and get insight into the data in visual forms.
- Implemented ETL Filtrating step using Mongo ProjectionWritten jobs of cleansing and normalizing contacts fetched from LinkedIn
- Created Alteryx flows for association and Graph Modeling of LinkedIn Contacts
- Responsible for indexing processed data to MongoDB and ElasticSearch to be used in WEB APP.
- Performance Tuning of Elastic Search Indexing
- Code review using Fabricator

Environment: JAVA, Elastic Search, Kibana, Log Stash, MongoDB, Spring Boot, GIT, Alteryx, IntelliJ, Jenkins, Chef, JUnit, Log4J, Phabricator, Sonar Lint, Graylog

Lead Consultant, 11/2010 - 09/2015

Rtx – Andrews Air Force Base, MD

Project: Social Media Tool Providing Sentiment and Trending of keywords

- Involved in importing the real-time posts/tweets from a various data source like FB, Twitter, Google Plus to MongoDB using Kafka producer/consumer model.
- Developed Spring boot micro-services to communicate between Mule ESB and MongoDB
- Involved in creating Mule ESB layer for the different component of the product
- Involved in creating Spring Quartz batch program which fetches data from the Social API for a given set of keywords
- Responsible for integrating different modules like Liferay, MongoDB, Alchemy, InfiniDB using JSON Rest services.
- Extensively used Mongo Aggregation API for sentiment analytics
- Optimized Mule flows to use multiple threads using Java Executor Framework
- Built relevancy of data using MongoDB text search functionality
- Performance Tuning of the application using Java profiler

Environment: Core JAVA, Mule ESB, Spring REST services, Maven, Tortoise SVN, MongoDB, Alchemy API, InfiniDB, My SQL, Eclipse, D3.js, Jenkins

Project: Learning Management System

- Design and development of portlets using Liferay and Struts
- Involved in creating roles, assigning permissions to portlets, managing users, mapping roles to the user using Liferay control panel
- Did customization in the hook.
- Extensively involved in creating Web services to integrate module with client's portal.

Environment: Tomcat 6.0, SQL Server DB 2008, Java Script, JQuery, JSTL, AJAX, ANT, Struts 1.3 Protlets, JSP, Struts 1.x, Liferay, HTML, SOAP services, Eclipse 3.4, SVN, JIRA

Sr. Software Engineer, 08/2007 - 11/2010

Sharp Decisions – Harrisburg, PA

Project: Insurance Portal - Receipt Writing System

- Extensively involved in enhancing the application as per requirements
- Developed application service components and configured beans using Spring IoC, creation of Hibernate mapping files and generation of database schema
- Configured Hibernate framework with Spring MVC to provide more modularity in terms of DAO layer implementation
- Implemented an asynchronous, AJAX (jQuery) based rich client on improving customer experience
- Implementation of different batch jobs like Notices and Letter Generation

Environment: JAVA, Spring MVC, Hibernate, JSP, Servlet, Oracle 9i, DB2, Eclipse 3, Tomcat 6, JQuery

Software Engineer, 11/2005 - 08/2007

I-Engineering Software Pvt. Ltd. – City, STATE

Project: Online Insurance Application

- Involved in writing POJOs and have used JavaScript to handle client side validation.
- Implemented service layer to communicate to Stored procedure
- Participated in database schema design and creating stored procedure and views in PostgreSQL
- Optimized SQL queries

Environment: JSP, Servlet, Core JAVA, JavaScript, PostgreSQL, TAOD client, SVN