**Victor Chugunov**

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Professional Summary

Senior Data/Software Engineer with 15+ years of experience in building data intensive applications, tracking challenging architectural and scalability problems. A Databricks Certified Associate Developer for Apache Spark 2.4 (Scala) with hand-on experience in Big Data and Machine learning technologies. Skilled in technologies like Spark, Hadoop, Kafka, Cassandra. Result focused and deeply passionate about solving hard problems. Dedicated to maintain up-to-date IT skills and industry knowledge.

**Skills**

Programming Languages: Java, Scala, Python, C/C++

Hadoop Eco System: Hadoop, Spark, Hive, HBase, Map-Reduce, HDFS, Zookeeper

Stream data processing frameworks: Storm/Heron, Spark Streaming, Flink, Apache Beam

Working knowledge of Machine Learning techniques and algorithm

Frameworks: Spring/SpringBoot, JPA, Hibernate, Juice, Akka

Cloud: AWS, Google Cloud, Pivotal

SQL/NOSQL: Postgres, Oracle, MySql, Microsoft SQL Server, Cassandra, Redis, MongoDB

Tools: Eclipse/IntelliJ, Git, Maven, Gradle, SBT

DevOps tools: Docker, Kubernetes, AWS EKS, ELK, Jenkins, Splunk, New Relic, Terraform

**Experience**

**Nike**, CA (remote) - Contract 03/2021 - current

Senior Software Engineer (AI/ML platform)

Working on the next AI/ML platform (AWS EKS based), migrating/updating existing Java/Scala/Python applications/infrastructure to AWS EKS, working on performance improvement of Scala/Python applications serving deployments/tracking of the ML models. Updated AWS infrastructure using Terraform.

**Conversant**, San Francisco, CA 07/2017 - 03/2021

Senior Software Engineer

Involved in design, development and implementation of data transformation components to support mission-critical ETL processes. Implemented POC of real-time data pipeline with Spark Structured Streaming and Kafka. Lead the transition pipeline scheduling platform from Mesos/Chronos to Apache Airflow. Converted Hadoop/Spark applications to the dockerized images to run under Airflow. Designed and implemented custom operators for Apache Airflow. Provided direction and guidance to other developers to solve problems, improve efficiency and process, and employ new technology.

**Apteligent**, San Francisco, CA 11/2016 - 05/2017

Senior Software Engineer (Platform Team)

Worked on Apteligent Platform (Java, Scala, Python), processed over 4 billion mobile requests per day across 1 billion devices. Performed day-to-day operations (Spark, Kafka, Cassandra, Mongo, Azkaban, AWS) including operation, deployment and debugging of jobs (platform) issues. Redesigned and implemented monitoring and alerting system (Prometheus based) for Apteligent platform (Spark jobs, Kafka). Worked on switching platform components to use spot instances (**[www.spotinst.com](http://www.spotinst.com)**) which provide significant savings (up to $50K monthly). Designed and prototyped new streaming layer for platform and microservices (Java/SpringBoot). On call experience.

**SleepIQ Labs (BamLabs)**, San Jose, CA 08/2015 -10/2016

Senior Backend Engineer

Researched different streaming frameworks for next generation of streaming platform. Redesigned API layer for new functionality and products. Designed/implemented solution (Kafka/Cassandra) to ingest stream of data from connected devices and archiving data (AWS S3). Supported Scala/Akka based Load Tester tool to emulate up to 500K connected devices. Worked on metrics collection, performance and data analytics. Participated/assisted devOps team in building company’s AWS infrastructure for deploying micro services. Oversaw development of off-shore team (3-5 members).

**IPG (Cadreon/Mediabrands),** San Francisco,CA 07/2014 - 08/2015

Principal Software Engineer

Designed and implemented RESTfull API layer (SpringBoot based) for new designed console/dashboard applications. Improved scalability of TotalTag application. Using RightScale templates added AppDynamics and Splunk to all company's AWS applications. Designed/Prototyped solutions (POC) for ETL and streaming data based on open source projects (Kafka/Storm, Spark).

Coordinated with QA testers for end-to-end unit testing and post-production testing.

**PearsonKT (Ordinate Inc.),** Menlo Park, CA 02/2006 - 07/2014

Principal Software Engineer

Created analysis and design documents, APIs (REST/HATEOS), prototyped solutions for refactoring/redesign company’s current infrastructure/applications to move to the cloud infrastructure (Amazon AWS/Cloud Foundry).

Designed, led implementation of the web service (Spring-WS/WCF) for integration with JungChul (South Korea) client. Managed and oversaw the development team/process in Korea. Designed and implemented SOAP web service (Spring-WS based) for Pearson Inc. Implemented a certificate’s based security for the client. Designed, developed Ordinate Oral Fluency Reading web application (ORF) for automated grading human (students) readings in English. Designed, developed and implemented integration between client’s Cold Fusion and Ordinate ORF applications using web services (SOAP based) (Spring-WS, Hibernate).

Provided support for company web sites ([www.ordinate.com/www.versanttests.com](http://www.ordinate.com/www.versanttests.com)). Applied security updates. Implemented automated testing using Spock/Geb. Support C/C++ legacy application (added new features).

**Primitive Logic, San** Francisco, CA Contract 10/2005 - 12/2005

Senior Developer/Consultant

Designed, developed SOA/WebServices solutions for the company’s client (healthcare) using IBM WebSphere Integration Developer (BPEL/SOAP), deployed business processes to the WebSphere Process Server (WPS). Designed web application client using JSF technology to communicate with business processes in WebSphere Process Server.

**Intresys Inc.**, San Carlos, CA 10/2002 – 10/2005

Software Engineer

Designed, developed Web based applications for www.ezlegalfile.com, www.turbocourt.com - Interactive Court Forms Portals, where litigants have an ability to complete, print and electronically deliver their court forms for a variety of legal issues, using Struts, JSP (JSTL), servlets, XML, JAXB/Adobe PDF based questionnaire framework. Implemented test cases for code using JUnit, HttpUnit. Designed and implemented Java classes to work with different types of documents for law offices (PDF files, MS Excel files, MS Word). Implemented payment solutions for TurboCourt website (PayPal based) and developed information module using PayPal WebServices. Defined application business models, coded application layer using proprietary framework for configurable tool to define and automate business processes.

**Vanguard Software Solutions, Inc.,** Los Altos, CA 12/2001 - 10/2002

Consultant

Designed, developed both Web clients and server side components (session and entity beans) for B2B and B2C e-commerce applications using WebSphere Application Server 4.0. Designed JSP custom tag components for web application layer. Created databases for company projects, maintained backups. Implemented XSLT scripts to transform XML documents from different formats.

**marchFIRST Inc.,** Cupertino, CA 06/2000 – 05/2001

*Senior Software Engineer/Consultant*

Developed e-commerce sites using IBM WebSphere Application server v3.5/4.0 and WebSphere Commerce Suite (WCS) v4.1/v5.1. Developed, tested, and deployed Java components to override or extend the business logic of WSC (v5.1) applications using J2EE technology (EJB/Servlets/JSP). Contributed to the design and implementation of marchFirst’s Application Framework Architecture based on IBM WebSphere Application Server. Provided technical leadership on various portions of the software development phases of internal and external projects for several client engagements. Explored and evaluated several content management systems.

**Etak Inc.,** Menlo Park, CA 08/1999 – 06/2000

*Software Engineer*

Designed and implemented Java classes to enable interoperability between Java objects and C++ based ActiveX controls. Developed C++ (MFC) classes and ActiveX controls to interact with map engine.

Designed, developed and implemented server-side components of a Web-based n-tier application (NT 4.0/IIS 4.0/MS SQL Server 7.0). Provided design and implementation for web site using HTML, JavaScript, Java servlets, and JSP. Designed, developed, and implemented a RMI Server, connection pooling between server and backend database (MS SQL Server) using JDBC/ODBC technology. Contributed to the design of RMI clients, database design.

**Amazing Smart Card Technologies (Amazing Controls! Inc.),** Santa Clara, CA 03/1997 – 08/1999

*Software Engineer*

Designed, developed and tested the company Intranet site (HTML/DHTML, JAVA/servlets/JDBC). Contributed to the design and implementation of the company's inventory system (JAVA, SQL, JDBC, and GUI) and database design. Designed, coded, and tested applications for the testing and initialization of smart cards with microprocessors and I2C memory. Provided technical assistance to Customer Support by responding to inquiries regarding errors, problems, or questions with smart card applications. Trained employees to use test equipment and test programs for the initialization of smart cards and Quality Control. Prepared documentation for internal needs.

**Education and other Certifications**

Databricks Certified Associate Developer for Apache Spark 2.4 with Scala 2019

BerkeleyX’s (edX) Spark & ML courses (CS105/110/120) 2016

BerkeleyX’s (edX) Spark courses (online) 2015

Coursera - Stanford Statistical Learning (online) 2014

Cassandra training (online) ` 2013

MongoDB training for DBA and Java (online) 2013

Stanford Machine Learning class (on-line) 2012

B.S.E.E. Kaliningrad Technical State University Kaliningrad, Russia 1987

**Personal**

US citizen, amateur sailor (Tahiti, BVI, Belize, Mexico), participated in Apache BigTop Open Source project (2013/2014)