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**Next**

Big Data Engineer

ROBERT SMITH

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Objective

Big Data Architect/Engineer with extensive experience in all phases of software development life cycle. Passionate about Big Data technologies and the delivery of effective solutions through creative problem solving. Track record of building large-scale systems using Big Data technologies.

Skills

Scala, Spark, C++, Java, Python, PHP, HTML, JavaScript, MySQL, Hadoop.

Work Experience

Big Data Engineer

ENDGAME - January 2015 - 2020

- Lead architect responsible for Endgames Big Data Platform.
- Technologies include Hadoop, Hive, Pig, Storm, Kafka, and Spark.
- Platforms include Hortonworks, Cloudera, Mongo, MariaDB, Postgres and OrientDB.
- Developed Java Map Reduce and pyspark jobs for analytics use cases.
- Developed MariaDB database schemas for malware metadata repository.
- Developed real-time anomaly detection library using Storm.
- Wrote a python library for preprocessing json for ingest into Elasticsearch to support search and analytics use cases.

Big Data Engineer

Delta Corporation - 2011 - 2015

- Analyze / write complex SQL scripts and rewrite some business logic in scala.
- Transferred ETL process from vertica to Spark.
- Reduced the worker nodes and running time by 50%.
- Tuning and optimizing running environment on spark cluster.
- Helped in configuring of SAP HANA (high performance analytic appliance) which provides functionality like in-memory computing, column-oriented RDBMS.
- Assisted sales officers in checking various sales and finance transactions on the go Developed GPS based android mobile application- Xsnehash for .
- Designed, implemented and maintained scalable data pipelines with Hadoop / Hive to process raw data at scale (excess of 1B rows daily) - Introduced .

Education

Computer Science - (University of California - Santa Cruz, CA)

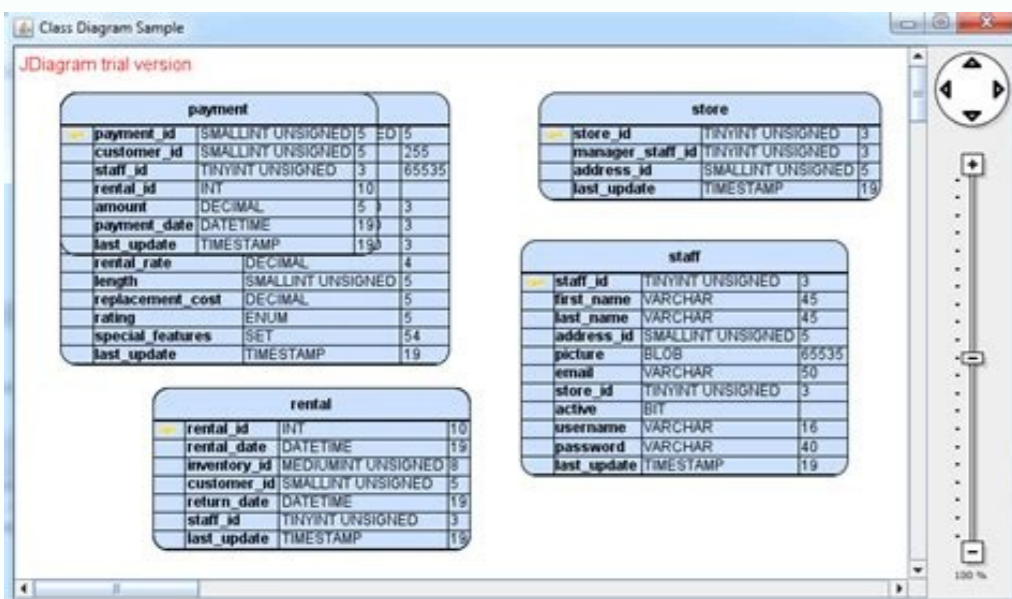
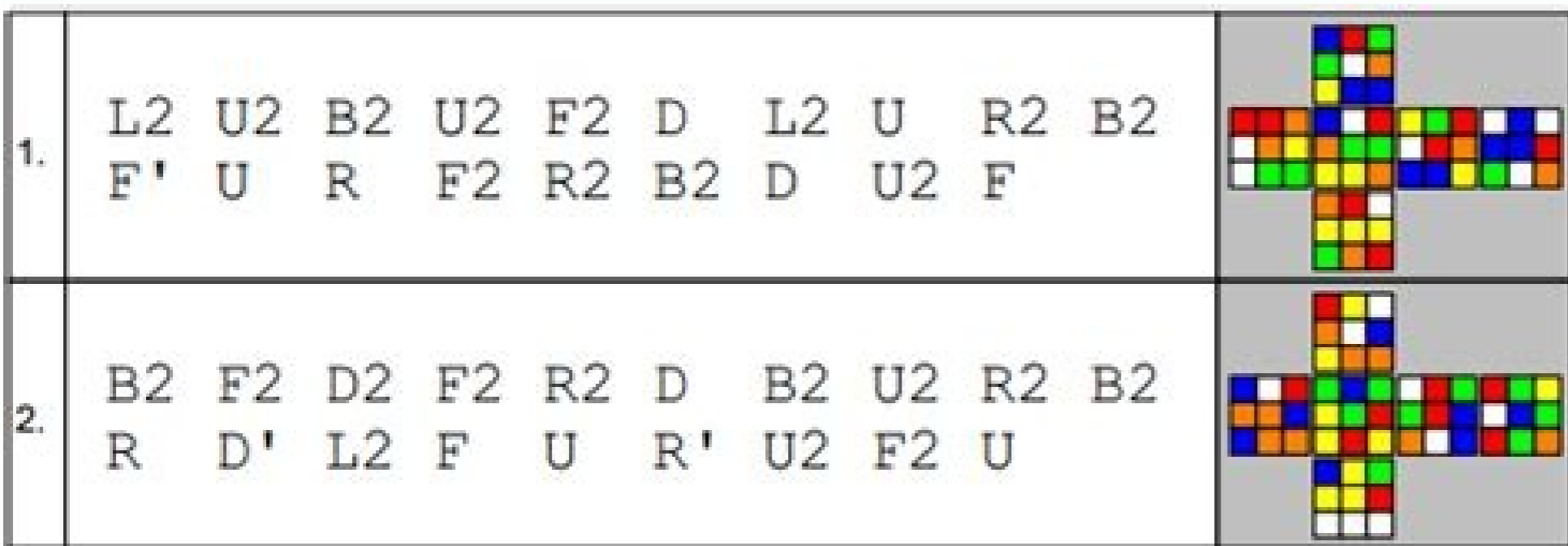
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Oracle® Database  
 Advanced Application Developer's Guide  
 11g Release 2 (11.2)  
 E41502-06

December 2014

the alleged signature as  $(R, S)$  for some  $R \in E$  and  $S \in \{0, 1, \dots, \ell - 1\}$ . The verifier computes  $H(R, A, M)$  and then checks the group equation  $8SB = 8R + 8H(R, A, M)A$  in  $E$ . The verifier rejects the alleged signature if the parsing fails or if the group equation does not hold.

To see that signatures pass verification, simply multiply  $B$  by the equation  $S = (r + H(R, A, M)a) \text{ mod } \ell$ , and use the fact that  $\ell B = 0$ , to see that  $SB = rB + H(R, A, M)aB = R + H(R, A, M)A$ . The verifier is *permitted* to check this stronger equation and to reject alleged signatures where the stronger equation does not hold. However, this is not *required*; checking that  $8SB = 8R + 8H(R, A, M)A$  is enough for security.



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Drag the Google OCR engine inside the Read PDF With OCR activity. Drag a Write Text File activity below the previous Write Text File activity. Drag a Read PDF Text activity inside the sequence. Add the expression item.Contains("Bank Name:") in the Condition field. Drag an If activity below the Assign activity. This activity extracts information by using an OCR engine (Microsoft OCR and Tesseract OCR). This activity extracts information by using regular expressions. This is how the For Each container should look: Return to the Read PDF Text sequence and drag a Write Text File activity below the For Each activity. Add the value "Invoice02.pdf" in the FileName field. Add the variable arrayText(2) in the Value field. The name of the Sequence should be Read PDF With OCR. Drag an Assign activity inside the Sequence container. The example below presents two situations of reading a .pdf file: The first one explains how to read the .pdf file while using the Read PDF Text activity. Add the expression arrayText(1) in the Value field. Add the value "All" in the Range field. Add the variable chooseOption in the Result field. Place an Assign activity under the Read PDF Text activity. This is how the automation process can be built. Open Studio and create a new Process. Add the expression arrayText(0).Equals("Tiefand Glass AG") in the Condition field. Add the variable invoiceNumber in the To field. Add the value "InvoiceDetails.txt" in the FileName field. Add the expression extractedText.Split(Environment.NewLine.ToArray, StringSplitOptions.RemoveEmptyEntries) in the Value field. Drag another Read PDF With OCR activity and place it below the previous one. Add the value "OCRMicrosoft.txt" in the FileName field. Drag a Sequence container and connect it to the True branch of the Flow Decision activity. Add the variable address in the To field. Drag a Flowchart container in the Workflow Designer. This is how the For Each container should look: Return to the Main workflow working area. Add the variable city in the To field. Add the expression item.Split(".",c)(1) in the Value field. This is how your Sequence should look up until this point: Place a For Each activity below the If container and double-click the activity to open it. You can read and separately extract the content of .pdf files using activities that can read all characters included in the document. Add the variable extractedTextMicrosoft in the Text field. Add the expression item.Contains("Bank Account:") in the Condition field. Drag another Assign activity and place it below the previous one. Place a Flow Decision activity below the Input Dialog activity and connect it to it. Add the expression arrayText(4).Split(".",c)(1).Split("INVOICE").StringSplitOptions.None(1).Split("#"c)(1) in the Value field. Add the expression arrayText(3).Split(".",c)(0) in the Value field. The benefits of using an OCR engine are that the document reading can be applied even on scanned, signed, or handwritten documents. In the Properties panel add the variable extractedTextMicrosoft in the Text field. Add the expression arrayText(2).Split(".",c)(0) in the Value field. Drag an If activity inside the Body container of the For Each activity. The robot extracts the data using the specified process and saves the output in a .txt file. Add the expression arrayText(arrayText.Count-5) in the Value field. Create the following variables: Variable Name:Variable Type:Default Value:extractedText:String:arrayText:String:System.String[]:address:GenericValue:city:String:phone:PhoneNumber:String:invoice:InvoiceNumber:String:vendor:GenericValue:bankName:String:bankAccount:String:ibanCode:String: Drag a Sequence container and connect it to the False branch of the Flow Decision activity. Only one workflow is required for both scenarios, common until the point of asking the user to choose the desired reading method. Drag an Assign activity inside the Else field. Create the following variable: Variable Name:Variable Type:Default Value:chooseOption:GenericValue: Add your .pdf files to the project directory in order to be able to run the entire process from the same place or download this example in order to use the given file. Create the following variable: Variable Name:Variable Type:Default Value:extractedText:TesseractString:extractedText:MicrosoftString: This is how your workflow should look up until this point: Open the Read PDF Text sequence container by double-clicking on it. Drag an Input Dialog activity and connect it to the Start Node. Add the variable extractedText in the Text field. Add the value "OCRTesseract.txt" in the FileName field. Add the expression arrayText(3).Split(".",c)(1).Split("INVOICE").StringSplitOptions.None(0) in the Value field. Add the variable bankName in the To field. In the Properties panel, add the value 1 in the DegreeOfParallelism field. In the Properties panel, add the variable extractedTextTesseract in the Text field. Depending on your needs, you can use a simple activity that can recognize the characters, or use one with an OCR engine. Drag an Assign activity inside the Then field. Add the expression {"Read PDF Text", "Read PDF With OCR"} in the Options field. Place an If activity below the previous one. Drag a Write Text File activity below the Read PDF With OCR activity. Add the variable vendor in the To field. Add the variable ibanCode in the To field. In the Properties panel, add the expression "Choose one option below:" in the Label field. Drag a Read PDF With OCR activity inside the sequence. Add the expression item.contains("IBAN Code:") in the Condition field. Add the expression "Invoice details"+Environment.NewLine+Environment.NewLine+"Vendor: "+vendor+Environment.NewLine+Environment.NewLine+"Vendor address: "+address+Environment.NewLine+"City: "+city+Environment.NewLine+"Phone number: "+phoneNumber+Environment.NewLine+Environment.NewLine+"Invoice number: "+invoiceNumber+Environment.NewLine+"Bank name: "+bankName+Environment.NewLine+"Bank account: "+bankAccount+Environment.NewLine+"IBAN Code: "+ibanCode in the Text field. The name of the Sequence should be Read PDF Text. Add the expression arrayText(3).Split(".",c)(1).Split("INVOICE").StringSplitOptions.None(1).Split("#"c)(1) in the Value field. You can find both activities in the UIPath.PDF.Activities package. In the Properties panel, add the expression chooseOption = "Read PDF Text" in the Condition field. In the Properties panel, add the expression "NPO Invoice.pdf" in the FileName field. Add the expression arrayText(4).Split(".",c)(1).Split("INVOICE").StringSplitOptions.None(0) in the Value field. Drag another Assign activity and place it below the previous one. The main difference between the two scenarios is that the second one is also using OCR engines, meaning that the details of extracted information are more accurate than in the first case if the analyzed file is an image, scanned, or includes signed or handwritten fields. Drag the Microsoft OCR engine inside the Read PDF With OCR activity.

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