**ALEXSANDER PETRENKO**

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**OBJECTIVE:**

Experienced analyst with an appetite for data is interested in a Data Scientist role where I can apply my analytical skills to provide a business insight that will maximize profit, decision-making, and productivity through reporting, querying, statistical analysis, exploratory data analysis, data mining, and machine learning.

**CERTIFICATIONS:**

SAP HANA 1.0 (2012) **||** SAP BusinessObjects Web Intelligence (2011) **||** A-SAP 7 (2011), SAP Solution Manager (2011) **||** SAP ERP - INTEGRATION OF BUSINESS PROCESSES (2010)

**EXPERIENCE OVERVIEW:**

**EXPERIENCE:**

* **Data Scientist at John Deere (2015 – Current)**
  + John Deere (PEC)
    - **Roles: Analyst – Big Data Solutions - Data Scientist** 
      * Assigned and reviewed tasks, mentored junior analysts, managed performance feedback, and created development plans consistent with performing the role of team leader or project manager.
      * Supported business development activities to articulate John Deere’s Big Data Analytics capabilities and helped shape and communicate proposed solutions to management and executives.
      * Directed community of practice meetings where items such as model validation, model selection, KPIs/ Metrics identification, and Best Practice methods are addressed.
      * Exercised Exploratory Data Analysis (EDA) techniques to visualize complex datasets using SAS/R for improved decision-making and issue identification across all telematics /measurements data.
      * Implemented Machine Learning (ML) algorithms such as Bayesian, SVM, Apriori, Random Forest, etc. in R to validate models before production.
      * Automated machine learning algorithms to get a better insight into issue segmentation by first successfully joining various sources together in SAP HANA for real-time calculations and then segmenting using clustering and probabilistic algorithms to generate valuable information.
* **Data Scientist at ZAPAD-Pribor (2013 – 2015)**
  + ZAPAD-Pribor (Retail /HQ)
    - **Roles: Data Analyst/ BI Analyst**
      * Translated complex analytical concepts into actionable results. Was involved in the development and execution of all data management functions and statistical analysis relating to client specific projects.
      * Developed statistical models using R - programming such as traditional linear and generalized linear models including multiple regression, logistic regression, and application of multivariate methods.
      * Performed vendor landscape and technology assessments (Hadoop, NoSQL, distributed RDBMS, In-memory databases, BI / Reporting, analytical tools / languages, data visualization, etc.)
* **Analytics Consultant at SAP (2011 – 2013)**
  + Bank of America (Banking) – Charlotte, North Carolina
    - **Roles: Developer/ Consultant** 
      * Created technical specifications, which were used in query building and developing of Crystal Reports. Developed complicated (blend) queries using BeX Query designer. Used Web Application designer to create a template that was used with BeX reports and for SAP Crystal Reports.
      * Created various SQL stored procedures, views, functions and temporary tables for data input to the Crystal Reports.
  + Charles Schwab (Banking) – Phoenix, Arizona
    - * Performed business requirement assessment. Analyzed processing and delivery methods, semantic layer, and content type.
      * Performed infrastructure assessment on current system and performed sizing for BI 4.0.
      * Provided Xcelsius and Business Objects consultancy advice to their team.
  + Honeywell (Manufacturing) – Morristown, NJ
    - * Provided support with Mobile BI issues. Helped in resolving the issues with Web Intelligence reports on company-owned iPads.
  + National Bank of Canada (Banking) – Montreal, Canada
    - * Created Xcelsius dashboard and Web Intelligence reports to meet client needs and facilitate in KPI tracking.
      * Created and troubleshoot issues which hindered a smooth rollout of Xcelsius Dashboard and Web Intelligence Reports. Provided consultancy role to existing Xcelsius Dashboard developers on best practices, design strategies, and technical assistance to their existing dashboard development.
  + Computer Science Corporation (Insurance) – Detroit, Michigan
    - * Provided consultancy advice and documentation on the upgrade path from SAP Business Objects XI 3.1 to SAP Business Objects BI4. Developed training manuals on Crystal Reports, SAP Explorer, and SAP Web Intelligence for CSC.
  + GulfMark (Marine Transportation) - Dallas, Texas
    - * Developed Xcelsius dashboards on top of the BPC and setup universe that was connected to an SAP Business Objects BPC environment using an ODBO connector.
  + AIG (Insurance) – Los Angeles, California
    - * Developed Complex Crystal Reports (Ad Hoc Reports, Frequency Reports, Summary Reports, Drill-down, Dynamic grouping, graphical, aging reports), which were installed on BI 4.0 for HANA.
      * Installed Explorer 4.0 for HANA and Connected Analysis for MS Office (1.2) to HANA.
  + SAP (Internal) – Palo Alto, California
    - * Created a set of dashboards for a pharmaceutical company to meet KPI tracking, which provided overall information on patients and their relationship to prescription increase over time to health level.
      * Provided consultancy role to existing Xcelsius Dashboard developers on best practices, design strategies, and technical assistance to their existing dashboard development.
* **Business Intelligence Analyst at BPM Analyst (2009 – 2011)**
  + Business Intelligence Analyst (Consulting) – San Francisco
    - **Role: Developer/ Consultant**
      * Gathered reporting requirements from the requestor and shared report options with the requestor.
      * Created mock-up reports for review.
      * Developed complex, production-level reports. Translated end user reporting requirements into technical design documents.

**EDUCATION:**

* **Northwestern University** (expected: 2016) Master of Science: School of Management Concentration: Predictive Analytics (Machine Learning, Statistical Analysis, Modeling, and Pattern Recognition)
* **California State University, Sacramento** (2011) Bachelor of Science: Business Administration Concentration: Management Information Systems (Business Intelligence, Data Mining, ERP System, and SQL)