

Desared Osmanllari

Curriculum Vitae

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General Information



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| Name | Desared |
| Family Name | Osmanllari |
| Date of Birth | June 9, 1993 |
| Gender | Male |
| Current Address | Bernhard-Feilchenfeld-Straße 13, Köln |
| Nationality | Albanian |

Education

Oct 2015 – Sep 2018

RWTH Aachen University, Aachen

M.Sc. Software Systems Engineering, German grade: 1.7

- Master Thesis: “Conceptualization and Development of a Predictive Big Data Streaming Application in the Context of Automotive Manufacturing”

Aug 2011 – May 2015

American University in Bulgaria, Blagoevgrad

Double Bachelor Degree, German grade: 1.7

Graduated top 10% of the 2015 class

- Computer Science, Bachelor Thesis: “Multiplayer Dice Game” (German Grade: 1.3)
- Information Systems, Bachelor Thesis: “Tour Guide Mobile Application” (German Grade: 1.0)

Apr 2014 - Sep 2014

Otto von Guericke University, Magdeburg

Erasmus Exchange Semester, Information Technology

Sep 2007 – Jun 2011

Ismail Qemali, Tirana

Higher Education Entrance Qualification

- A-levels: Physics, Maths, Informatics
- German grade: 1.3

Work Experience

Oct 2018 – present

Data Scientist at real.digital

- Developing applications and data-driven products, which are integrated into the business processes.
- Various analytical approaches and data mining algorithms are used for pattern detection, regression, classification, clustering, dimensionality reduction, and deep learning.
- Technologies and Concepts: Machine Learning, Predictive Analytics, Recommendation Systems, Kubernetes, Helm, Docker, Python, Tensorflow, Keras, Scikit-Learn, Spark.

Oct 2017 – Aug 2018

Internship and Master Thesis Student at AUDI AG

- Working at TechHub Data Driven Production group, which aims to efficiently automate the automobile manufacturing industry using big data technologies.
- The internship program deals with topics on predictive modelling, validation, supervised/unsupervised learning, and big data analytics. Data is ingested from

various sensors and PLC systems, stored in a Hadoop cluster and analysed by Spark as a big data processing tool.

- Technologies and Concepts: Big Data, Data Lake, Smart Factories, RabbitMQ, Spark, Python, R, Tableau.

Apr 2017 – Jun 2017**Internship at PwC – Forensic Technology Solutions**

- Assisting in the fields of Forensic Technology Solutions & Data Mining.
- Participating in projects concerning computer forensics, e-discovery, predictive data analysis and fraud detection.
- Technologies and Concepts: Relational Databases, Structured Data, ERP System, Java, Microsoft SQL, QlikView, SAP.

Nov 2016 – Feb 2017**Teaching Assistant at RWTH Aachen University**

- Assisting Dr.Oya Deniz Beyan during “Big Data in Medical Informatics” lectures.
- Preparing learning materials, exercises, and homeworks about topics related to biomedical ontologies, RDF data models, and SPARQL query language.

May 2016 – Jul 2016**Student Helper at RWTH Aachen University**

- Developing microservice applications, web components or widgets using las2peer as a Java-based Open Source framework for distributing community services in a peer-to-peer infrastructure.

Projects Involved**May 2020****Customer Segmentation Report for Arvato Financial Services - Python**

- Capstone project of Machine Learning Engineer Nanodegree offered by Udacity. Supervised and unsupervised learning techniques are used to acquire potential future customers of a mail-order company.

Feb 2017**Application of Lambda Architecture in the Automotive Industry – Spark**

- Master thesis presented at RWTH Aachen. In this project, using the concepts of lambda architecture, a well-defined, efficient, and scalable technique adapted for real-time predictive maintenance is implemented.

Feb 2017**Lab: Data Visualization and Analytics – R statistical tool**

- Lab project presented at Fraunhofer Institute. The topic consists on movie predictions using multivariate regression and feature modelling.

May 2015**Tour Guide Mobile Application – Android Application**

- Interactive Android application containing a static database of European touristic destinations.

May 2015**Multiplayer Dice Game - Java**

- Multiplayer game using advanced algorithm and probabilistic functions.

Papers**Mar 2017****SPARQL Query Optimization for Federated Linked Data**

- Chair of Information Systems & Databases, RWTH Aachen

Jun 2016**An Overview of Visualization in Mathematics, Programming and Big Data**

- Chair of Media Computing and Human-Computer Interaction, RWTH Aachen

Languages

- Albanian: native speaker
- English: fluent (level C1-C2)
- German: upper intermediate (level B2)
- Italian: intermediate level (level A2-B1)

Technical Skills

- Programming Languages: Python, R, Java, LaTeX
- Big Data Stack: HDFS, MapReduce, Spark (SQL, ML, Streaming), Hive
- Operating Systems: Linux, Windows
- Cloud Computing: GCP (BigQuery, Kubernetes), AWS (Sagemaker)
- Query languages: MS SQL, MySQL, SPARQL, BigQuery SQL
- Data Integration Tools: Talend
- Modelling: UML, ER-Model
- Visualization Tools: Qlikview, Tableau
- Other: Kafka, Databases, Git, Numerical Libraries, Tensorflow, Keras, Docker

Honours and Awards

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| May 2015 | Dean's List Scholar 2014/2015 B.A. Computer Science |
| May 2015 | Cum Laude 2011-2015 B.A. Computer Science & Information Systems |
| Nov 2014 | Phi Beta Delta Honour Prize for international experience |

Certifications

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| May 2020 | Machine Learning Engineer Nanodegree (Udacity) |
| Jul 2016 | SimulTrain – Project Management Simulation (RWTH Aachen University) |
| Nov 2016 | R Programming (Certification Authority: Coursera) |
| Dec 2016 | Getting and Cleaning Data (Certification Authority: Coursera) |
| Sep 2016 | Statistical Inference/Regression Models (Certification Authority: Coursera) |

Main Interests

- Machine Learning / Data Mining / Business Intelligence
- Business Management
- Politics
- History
- Football