

# Desared Osmanllari

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## Curriculum Vitae

### General Information

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

### Education

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**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

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**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, classification, and model training. The latest techniques regarding text, image, and time-series analysis are used for improving the quality of the final product.
- Technologies and Concepts: Machine Learning, Predictive Analytics, Recommendation Systems, Natural Language Processing, Docker, Python, R, Spark.

**Oct 2017 – Mar 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 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.

**Sep 2012 – May 2014****CSSU- Computer Science Student Union**

- Organizing presentations of influential guest speakers and preparing events on interesting computer science projects.

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

- Master Thesis project presented at RWTH Aachen. Topic: Conceptualization and Development of a Predictive Big Data Streaming Application in the Context of Automotive Manufacturing.

**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. The application is built using R environment for computing and graphics.

**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**

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

**Technical Skills**

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- Programming Languages: Python, R, Java, Scala, LaTeX
- Big Data Stack: HDFS, MapReduce, Spark (SQL, ML, Streaming), Hive, HBase
- Operating Systems: Linux, Windows
- Query languages: MS SQL, MySQL, SPARQL
- Data Integration Tools: Talend, SSIS
- Modelling: UML, ER-Model, SAP
- Visualization Tools: Qlikview, Tableau
- Other: Kafka, Databases (SQL and NoSQL), Git, Numerical Libraries, Scikit-Learn, Tensorflow, Keras

**Honours and Awards**

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<b>May 2015</b>	Dean's List Scholar 2014/2015 B.A. Computer Science
<b>May 2015</b>	Cum Laude 2011-2015 B.A. Computer Science & Information Systems
<b>Nov 2014</b>	Phi Beta Delta Honour Prize for international experience
<b>May 2010</b>	Fund for Excellence from the Albanian Ministry of Education

**Certifications**

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<b>Jul 2016</b>	SimulTrain – Project Management Simulation (RWTH Aachen University)
<b>Nov 2016</b>	R Programming (Certification Authority: Coursera)
<b>Dec 2016</b>	Getting and Cleaning Data (Certification Authority: Coursera)
<b>Sep 2016</b>	Statistical Inference/Regression Models (Certification Authority: Coursera)

**Main Interests**

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