

# Desared Osmanllari

# Curriculum Vitae

Bernhard-Feilchenfeld-Straße 13 • 50969 Köln

Tel. +49 176 57799502 • E-Mail: [desaredosmanllari@gmail.com](mailto:desaredosmanllari@gmail.com)

## General Information

---



<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

---

**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, classification, and clustering.
- Technologies and Concepts: Machine Learning, Predictive Analytics, Recommendation Systems, Kubernetes, Helm, Docker, Python, Tensorflow, Keras, Scikit-Learn, 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 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.

**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**

---

- 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**

---

<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**

---

<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**

---

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