



Ahmed Soliman

Software Developer/Data Scientist

📁 Employment History

Software Developer at RWTH Aachen University, Chair for Electrochemical Energy Conversion and Storage Technologies, Aachen, Germany

August 2016 – August 2017

- Develop a new canteen management system for the institute ([Pictures](#)) ([Code](#))
 - **Backend** Laravel (PHP framework), SQL
 - **Frontend** Javascript, CSS, HTML, Bootstrap3 and jQuery.
 - The projects is structured following MVC principles and RESTful API guidelines
- Improve systems responsible for managing everyday tasks at the institute such as printing/reading PDF files and tracking the work time of institute employees.

Software Developer/Data Scientist at RWTH Aachen University, Chair of Communication and Distributed Systems, Aachen, Germany

January 2018 – Present

- Study and analyze data collected from the [Jodel Social Network](#) in Saudi Arabia to have a better understanding of who the users are, why they use the application and how locality and anonymity affects conservative communities.
 - Develop the necessary tools to easily and rapidly filter through tens of millions of messages posted on the [Jodel Social Network](#) and classify them into predefined categories. ([Pictures](#))
 - Develop the necessary tools to easily and rapidly calculate new features from the collected data for machine learning projects. The system developed now runs on a machine with 512 GB of RAM and 64 virtual processors and makes use of all its resources. ([Pictures](#))
- All tools are developed to aid other students doing their bachelor and masters thesis at RWTH Aachen.
- **Technologies:** Laravel, MongoDB, MariaDB, Vue.js, Bootstrap4, Javascript, Parallel, Python

Web Developer/Research Assistant at RWTH Aachen University, Chair of Computational Social Sciences and Humanities, Aachen, Germany

July 2018 – Present

- Develop web crawlers to mine text from news websites and other sources.
- Generating word embeddings from the crawled corpus using Tensorflow and word2vec
- Studying and comparing the generated word embeddings
- Develop the chair's official website ([View](#))

Details

Maastrichter Straße 1, Aachen,
52075, Germany, +49 176
80748731

asoliman96@gmail.com

Date / Place of birth

1996-04-11

Cairo, Egypt

Nationality

Egyptian

Links

[LinkedIn](#)

[Github](#)

Skills

Web Development

PHP

Laravel

Python

HTML

CSS

Java

SQL

MongoDB

Javascript

Vue.js

Data Visualisation

Data Analysis

Languages

Arabic

English

🎓 Education

Master of Science, Computer Science, RWTH Aachen University, Aachen

October 2018 – Present

Bachelor of Science, Computer Science, RWTH Aachen University, Aachen

October 2014 – September 2018

Abitur, Deutsche Evangelische Oberschule, Cairo, Egypt

June 2014

🎓 Courses

Data Structures and Algorithms, RWTH Aachen

Computability and Complexity, RWTH Aachen

Web Technology, RWTH Aachen

Software Technology, RWTH Aachen

Designing of Interactive Systems, RWTH Aachen

Implementation of Databases, RWTH Aachen

Foundations of Data Science, RWTH Aachen

Web Mining, RWTH Aachen

Machine Learning, RWTH Aachen

Social Data Science, RWTH Aachen

Introduction to Data Science, RWTH Aachen

🍷 Extra-curricular activities

Software Developer at IT4KIDS, Aachen

April 2017 – April 2018

IT4KIDS is a non-profit organization, which aims to improve the way computer science is taught in German schools. Currently, we operate in more than 10 schools in the area of Aachen. ([Code](#))

Event Organiser at CISV Egypt, Cairo, Egypt

August 2014 – October 2014

Celebrating Peace one day in Egypt by organizing an event where we raise awareness about peace around the world. The event was attended by more than 900 people.

Goole Hashcode 2016

2016

[Code](#)

Google Hashcode 2017

2017

[Code](#)