



# Khaled Jallouli

*Software Engineer Specialized in Data Science*

## Personal Information

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## Experience

### Internships

- Since Aug. 2020 **Data Science Intern (Master Thesis)**, *KAMAG Transporttechnik*, Ulm, Germany.  
Optimization of yard movements and automatic generation of transport orders.  
  - Find the most appropriate approach for the purpose of the project based on related works and research.
  - Analyze the Yard Management System data and constraints to define optimization strategies.
  - Model and solve the optimization strategies to reduce the driven distance in the yard.
  - Used technologies: Data Analysis, Constraint Programming, Optimization, IBM ILOG CPLEX, Data Mining Methodology, Python, RESTful API, Swagger, Flask, Vue.js, GitHub, and LaTeX.
- Feb. 2019 – **Software Engineer Intern**, *CP Georges Renault*, Nantes, France.  
Jul. 2019 Setting up a server and developing a web interface to make the configuration of a tightening controller.  
  - Design a web architecture that meets company constraints.
  - Develop the back-end and the front-end, then integrates them into the tightening controller.
  - Used technologies: RESTful API, Cutelyst (C++), Vue.js, JSON, NGINX, Responsive Web Design (Adobe XD), Scrum, and SVN.
- Jun. 2018 – **Web Development Intern**, *Leads Generation*, Concarneau, France.  
Aug. 2018 Development of a website that references existing Business-to-Business events.  
  - Define the main functionalities and implement a responsive website.
  - Used technologies: Drupal 7, HTML 5, CSS 3, PHP, Twig, JavaScript, JQuery, OVH, and Mailchimp.
- Jun. 2017 – **Web Development Intern**, *BR&T*, Tunis, Tunisia.  
Aug. 2017 Development of a website presenting the start-up CCA Tunisia.  
  - Install CMS plugins and implement a responsive website.
  - Used technologies: WordPress, HTML 5, CSS 3, PHP, and Mailjet.
- Jan. 2017 – **Web Development Intern**, *Arzen Systems*, Ankara, Turkey.  
May 2017 Development of a learning management platform to manage courses, submit assignments and check grades.  
  - Define the functionalities using UML diagrams and develop a web platform.
  - Used technologies: UML, PHP, MySQL, JavaScript, HTML 5, CSS 3, Bootstrap, and AJAX.

Ulm, Germany

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## Academic Projects

- Since Mar. 2020 **Computer Vision Engineer**, *Technische Hochschule*, Ulm, Germany.
- The ability of a mobile robot to detect traffic signs in video streams in indoor environments.
  - Write a seminar report to define the used techniques.
  - Evaluate transfer learning for object detection with Google Coral.
  - Used technologies: Deep Convolutional Neural Networks, Single Shot Detection, Transfer Learning, Google Coral TPU USB Accelerator, Raspberry PI 4, and LaTeX.
- Since Oct. 2019 **Machine Learning Engineer**, *Technische Hochschule*, Ulm, Germany.
- Make a prediction of a match between two teams based on the results of the last ten games.
  - Data Understanding and Features Selection.
  - Use Supervised Machine Learning algorithms: Classification (Decision Trees and Neural Networks).
  - Used technologies: Python, TensorFlow, Keras, Scikit-learn, Pandas, Scrum, Git, CRISP-DM, and LaTeX.
- Oct. 2018 – Dec. 2018 **Sensor Data Acquisition Developer**, *National School of Engineering*, Brest, France.
- Switch between light and distance sensors using a Human-Machine Interface and display the data.
  - Used technologies: Microcontroller (Cortex m3), C++ (QT), OpenGL, C, and CAN Bus.

## Education

- Since Oct. 2019 **Master's Degree, Information Systems**, *Technische Hochschule*, Ulm, Germany.
- Relevant Coursework: Predictive Analytics, Intelligent and Autonomous Systems, Model-Driven Construction of Complex Systems, Software Quality Assurance, and Information Security.
- Since Sept. 2017 **Master's Degree, Software Engineering**, *National School of Engineering*, Brest, France.
- Relevant Coursework: Develop Interactive Applications, UML, Database Management Systems.
- Mar. 2016 – Jun. 2017 **Academic Exchange, Computer Engineering**, *Middle East Technical University*, Ankara, Turkey (Final grade: very good).
- Relevant Coursework: Programming, Web Development, Database Management Systems, and UML.
- Sept. 2014 – Jul. 2017 **Bachelor's Degree, Computer Science and Multimedia**, *Higher Institute of Multimedia Arts*, Manouba, Tunisia (Final grade: good).
- Relevant Coursework: Mathematics, Programming, Relational Database, and Graphic Design.

## Certificates

- Since Sept. 2020 **HarvardX's Data Science Professional Certificate using R**, *Harvard University*.
- Statistical concepts such as probability, inference, and modeling and how to apply them in practice.
  - Gain experience with tidyverse, including data visualization with ggplot2 and data wrangling with dplyr.
  - Implement machine learning algorithms through real-world case studies.
- Oct. –Nov. 2019 **Certificate in Deep Learning with TensorFlow**, *IBM*.
- Linear and Logistic Regressions, CNN, RNN, LSTM, and Deployment.
- Jan. 2019 **Certificate in Introduction to Artificial Intelligence**, *Microsoft*.
- Machine Learning: Creating a Regression, Classification, and Clustering Models using AzureML Studio.
  - Natural Language Processing: Text Analytics, Translation, and Speech.
  - Computer Vision: Image Classification, Image Analysis, Face detection, and Recognition.

## Skills

- **Programming Languages** Python, R, C++, C#, Java, and C
- **Data Science** TensorFlow, Keras, Scikit-learn, Pandas, Seaborn, and AzureML
- **Web** RESTful API, Swagger, Node.js, Express.js, Vue.js, and Cutelyst (C++)
- **Development Tools** Anaconda, RStudio, Qt Creator, Visual Studio, Android Studio, Unity 3D, and Eclipse
- **Unified Modeling Language** UML (Modelio)
- **Agile Project Management Methodology** Scrum and **Version Control** GitHub
- **Languages** Arabic (Native), French (C1), English (TOEIC: 870/990), German (A2), and Turkish (A2)

## Interests

- Sport Long-time handball player in various clubs, currently licensed player in SG Ulm/Wiblingen, Germany.
- Travel Adventure trips around the world to get to know other cultures.

Ulm, Germany

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