



Khaled Jallouli

Software Engineer Student Specialized in Data Science

Personal Information

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Education

Since October 2019 **Master's degree, Information Systems**, *Technische Hochschule*, Ulm, Germany.
o Relevant Coursework: Predictive Analytics, Intelligent and Autonomous Systems, Model-Driven Construction of Complex Systems, Software Quality Assurance, and Information Security.

Since September 2017 **Engineer's degree, Software Engineering**, *National School of Engineering*, Brest, France.
o Relevant Coursework: Programming (C, C++, and Python), Unified Modeling Language, Database Management Systems, and Design of Interactive Applications (Mobile and Web applications).

2016–2017 **Academic Exchange, Computer Engineering**, *Middle East Technical University*, Ankara, Turkey.
o Relevant Coursework: Database Management Systems, Object-Oriented Programming (C++), Programming in Internet Environment (HTML, CSS, JavaScript, and PHP), and Unified Modeling Language.

2014–2017 **Bachelor's degree, Computer Science and Multimedia**, *Higher Institute of Multimedia Arts*, Manouba, Tunisia.
o Relevant Coursework: Algebra, Analysis, Physics, Object-Oriented Programming (Java), Relational Database, and Graphic Design.

2014 **Secondary School degree, Mathematics**, *Secondary School Med Boudhina*, Hammamet, Tunisia.
o Relevant Coursework: Algebra, Analysis, Physics, and Chemistry.

Certifications

Since September 2020 **HarvardX's Data Science Professional Certificate using R**, *Harvard University*.
o Fundamental R programming skills.
o Statistical concepts such as probability, inference, and modeling and how to apply them in practice.
o Gain experience with the tidyverse, including data visualization with ggplot2 and data wrangling with dplyr.
o Become familiar with essential tools for practicing data scientists such as Unix/Linux, git and GitHub, and RStudio.
o Implement machine learning algorithms.
o In-depth knowledge of fundamental data science concepts through motivating real-world case studies.

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- October 2019–January 2020 **Certificate in Software Development For Medical Navigation Systems**, *Technische Hochschule, Ulm, Germany*.
- Software development: Programming with MITK (C++), Version control (Git), Testing and bug tracking.
 - Application concepts navigation: Tracking devices and navigation hardware OpenIGTLink (3D Slicer).
- October–November 2019 **: Certificate in Deep Learning with TensorFlow**, *IBM*.
- Linear and Logistic Regressions, Convolutional Neural Network (CNN), Recurrent Neural Network (RNN), Long Short-Term Memory (LSTM), Restricted Boltzmann Machines (RBMs), Autoencoders, and Deployment.
- January 2019 **Certificate in Introduction to Artificial Intelligence**, *Microsoft*.
- Machine Learning: Creating a Regression, Classification, and Clustering Models using Azure Machine Learning Studio.
 - Natural Language Processing: Text Analytics, Translation, and Speech.
 - Computer Vision: Image Classification, Image Analysis, Face detection, and Recognition.

Experience

Internships

- Since August 2020 **Data Science Intern (Master Thesis)**, *KAMAG Transporttechnik*, Ulm, Germany.
- Optimization of yard movements and automatic generation of transport orders. The case study is applied to a yard of DB Schenker company located in Nürnberg, Germany, which uses KAMAG Wiesels.
- Understand and define the problem.
 - Find the most appropriate approach for the purpose of the project based on related works and research.
 - Preprocess Yard Management System and vehicle sensors data.
 - Define and evaluate a Data-Driven model to predict future transport orders.
 - Analyze data and domain constraints to achieve optimal movement prediction.
 - Define and evaluate the model based on the data and constraints.
 - Deploy the model in the Yard Management System.
 - Follow Domain-Driven In-Depth Pattern Discovery as a Domain-Driven Data Mining methodology.
 - Write a technical report.
 - Used technologies: Predictive Analytics, Constraint Programming (Minizinc), Domain-Driven Data Mining, Python, Pandas, Matplotlib, Seaborn, Numpy, Tensorflow, GitHub, and LaTeX.
- February–July 2019 **Software Engineer Intern**, *CP Georges Renault*, Nantes, France.
- Setting up a server and developing a responsive web interface for a tightening controller to make the configuration of the system using a web browser.
- Design a web architecture that meets the company constraints.
 - Compare the web technologies and select the most efficient solution adapted to the constraints.
 - Develop the back-end and the front-end of the prototype, then integrates them into the tightening controller.
 - Write a technical report.
 - Used technologies: API REST, Cutelyst, Vue.js, JSON, NGINX, Responsive Web Design (Adobe XD), Scrum, and SVN.
- June–August 2018 **Web Development Intern**, *Leads Generation*, Concarneau, France.
- Development of a website that references existing Business-to-Business events such as webinars and conferences.
- Define the main functionalities and create a sitemap.
 - Install CMS plugins and implement a responsive website.
 - Upload the website to a server.
 - Used technologies: Drupal 7, HTML 5, CSS 3, PHP, Twig, JavaScript, JQuery, OVH, and Mailchimp.
- June–August 2017 **Web Development Intern**, *BR&T*, Tunis, Tunisia.
- Development of a website presenting the start-up CCA Tunisia.
- Install CMS plugins and implement a responsive website.
 - Keep the website up-to-day.
 - Used technologies: WordPress, HTML 5, CSS 3, PHP, and Mailjet.
- January–May 2017 **Web Development Intern**, *Arzen Systems*, Ankara, Turkey.
- Development of a learning management platform to manage courses, submit assignments and check grades.
- Define the functionalities to implement using UML diagrams.
 - Develop a dynamic platform and write a technical report.
 - Used technologies: UML, PHP, MySQL, JavaScript, HTML 5, CSS 3, Bootstrap, and AJAX.

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Academic Projects

Since March **Computer Vision Engineer**, *Technische Hochschule*, Ulm, Germany.

2020 The ability of a mobile robot to detect pictograms, warning signs, and traffic signs in video streams in indoor environments such as a shop floor.

- 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 October **Machine Learning Engineer**, *Technische Hochschule*, Ulm, Germany.

2019 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).
- Write a technical report following the CRISP-DM model.
- Used technologies: Python, TensorFlow, Keras, Scikit-learn, Pandas, Scrum, Git, and LaTeX.

October– **Sensor data acquisition developer**, *National School of Engineering*, Brest, France.

December Switch between light and distance sensors using a Human-Machine Interface and display the data.

- 2018 ◦ Used technologies: Microcontroller (Cortex m3), C++ (QT), OpenGL, C, and CAN Bus.

Skills

- **Machine Learning** TensorFlow, Keras, Scikit-learn, Pandas, Seaborn, and AzureML
- **Programming Languages** Python, R, C++, C#, Java, and C
- **Web** REST API, Node.js, Express.js, Vue.js, Cutelyst (C++), JavaScript, HTML 5, CSS 3, PHP, and Ajax
- **Database** MySQL and NoSQL
- **Version Control** GitHub and SVN
- **Agile Project Management Methodology** Scrum
- **Information Security** Secure Coding and Cryptography
- **Unified Modeling Language** UML (Modelio) and Petri net (Petri Net Editor)
- **Software Tools** Qt Creator, Visual Studio, Eclipse, Matlab, and Scilab
- **Mobile Application Development** Android Studio
- **Graphics Editors** Adobe XD, Illustrator, and Photoshop
- **Virtual Reality and Augmented Reality Development** Unity3D, Oculus, and Vuforia

Languages

Arabic	Native
French	C1
English	B2+ (TOEIC: 870/990)
German	A2
Turkish	A1

Interests

Sport Long-time handball player in various clubs, currently licensed player in the SG Ulm/Wiblingen in Germany.

Travel Adventure trips around the world to get to know other cultures.

Ulm, November 8, 2020



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