



# Khaled Jallouli

*Software Engineer Student Specialized in Machine Learning*

## 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, Computer 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

- October 2019–January 2020 **Certificate in Software Development For Medical Navigation Systems, Technische Hochschule, Ulm, Germany.**  
o Software development: Programming with MITK (C++), Version control (Git), Testing and bug tracking.  
o Application concepts navigation: Tracking devices and navigation hardware OpenIGTLink (3D Slicer).
- October–November 2019 **: Certificate in Deep Learning with TensorFlow, IBM.**  
o Linear and Logistic Regressions, Convolutional Neural Network (CNN), Recurrent Neural Network (RNN), Long Short-Term Memory (LSTM), Restricted Boltzmann Machines (RBMs), Autoencoders, and Deployment.

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1/3

- January 2019 **Certificate in Introduction to Artificial Intelligence**, *Microsoft*.
- o Machine Learning: Creating a Regression, Classification, and Clustering Models using Azure Machine Learning Studio.
  - o Natural Language Processing: Text Analytics, Translation, and Speech.
  - o Computer Vision: Image Classification, Image Analysis, Face detection, and Recognition.

## Experience

### Internships

- 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.
- o Design a web architecture that meets the company constraints.
  - o Compare the web technologies and select the most efficient solution adapted to the constraints.
  - o Develop the back-end and the front-end of the prototype, then integrates them into the tightening controller.
  - o Write a technical report.
  - o 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.
- o Define the main functionalities and create a sitemap.
  - o Install CMS plugins and implement a responsive website.
  - o Upload the website to a server.
  - o 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.
- o Install CMS plugins and implement a responsive website.
  - o Keep the website up-to-day.
  - o 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.
- o Define the functionalities to implement using UML diagrams.
  - o Develop a dynamic platform.
  - o Write a technical report.
  - o Used technologies: UML, PHP, MySQL, JavaScript, HTML 5, CSS 3, Bootstrap, and AJAX.

### Academic Projects

- Since March 2020 **Computer Vision Engineer**, *Technische Hochschule*, Ulm, Germany.
- 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.
- o Write a seminar report to define the used techniques.
  - o Evaluate transfer learning for object detection with Google Coral.
  - o Used technologies: Deep Convolutional Neural Networks, Single Shot Detection, Transfer Learning, Google Coral TPU USB Accelerator, Raspberry PI 4, and LaTeX.
- Since October 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.
- o Data Understanding and Features Selection.
  - o Use Supervised Machine Learning algorithms: Classification (Decision Trees and Neural Networks).
  - o Write a technical report following the CRISP-DM model.
  - o Used technologies: Python, TensorFlow, Keras, Scikit-learn, Pandas, Scrum, Git, and LaTeX.
- October–December 2018 **Robot developer**, *National School of Engineering*, Brest, France.
- Control a robot in the distance using a Human-Machine Interface.
- o Used technologies: Microcontroller (STM32), distance sensor (ultrasonic and IR), C, Xbee, and Linux.
- October–December 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.
- o Used technologies: Microcontroller (Cortex m3), C++ (QT), OpenGL, C, and CAN Bus.

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2/3

## Skills

- **Machine Learning** TensorFlow, Keras, Scikit-learn, Pandas, and AzureML
- **Programming Languages** Python, 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** Git 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, August 15, 2020



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