



# Khaled Jallouli

Software Engineer at PreciBake

## Personal Information

Name Khaled Jallouli  
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Date of birth September 06, 1995  
Place of birth Nabeul, Tunisia  
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## Experience

- Since Apr. 2021 **Software Engineer, PreciBake GmbH**, Munich, Germany
- Implement new features and solve software bugs to existing Django projects
  - Define RESTful APIs using Swagger
  - Implement aggregation pipelines with MongoDB and data migration
  - Optimize application performance for maximum speed based on profiling information
  - Write unit tests and Ansible scripts
  - Collaborate with frontend engineers
  - Tutor working students and review merge requests
  - Used technologies: Python, Django, MongoDB, noSQL, Swagger, REST API, JSON, Postman, Celery, Ansible, Docker, Nginx, Flake8, Black, Pyflame, Py-Spy, Scrum, Atlassian Tools, Gitlab, Slack, Linux
- Since Mar. 2020 **Private tutor, Superprof.de**, Germany
- Provide online/in-person tutoring to students of different nationalities, backgrounds and ages
  - Help students understand concepts related to their studies or work on personal projects
  - Teach lessons related to mathematics, programming, data science, and web development
- Aug. 2020 – Feb. 2021 **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 – Jul. 2019 **Software Engineer Intern, CP Georges Renault**, Nantes, France
- 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.

Munich, Germany

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- 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.

## Education

- Oct. 2019 – **Master's Degree, Information Systems, Technische Hochschule, Ulm, Germany**  
 Mar. 2021 ○ Relevant Coursework: Predictive Analytics, Intelligent and Autonomous Systems, Model-Driven Construction of Complex Systems, Software Quality Assurance, and Information Security.
- Sept. 2017 – **Master's Degree, Software Engineering, National School of Engineering, Brest, France**  
 Mar. 2021 ○ Relevant Coursework: Develop Interactive Applications, UML, Database Management Systems.
- Mar. 2016 – **Academic Exchange, Computer Engineering, Middle East Technical University, Ankara, Turkey**  
 Jun. 2017 (Final grade: very good)  
 ○ Relevant Coursework: Programming, Web Development, Database Management Systems, and UML.
- Sept. 2014 – **Bachelor's Degree, Computer Science and Multimedia, Higher Institute of Multimedia Arts, Manouba, Tunisia (Final grade: good)**  
 Jul. 2017 ○ 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, Django, Flask, 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 and GitLab
- **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 FC Bayern Munich, Germany.
- Travel Adventure trips around the world to get to know other cultures.