



# 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  
Nationality Tunisian  
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## Experience

- Since Apr. 2021 **Software Engineer**, *PreciBake GmbH*, Munich, Germany
- Implement new features and solve software bugs
  - Define Kafka Streams data and topics using Faust as a streaming processing library
  - Use Python Type Annotations and Mypy as a type checker
  - Follow Trunk-based development as a version control management practice
  - Define RESTful APIs using Swagger
  - Implement aggregation pipelines with MongoDB
  - Optimize application performance for maximum speed based on profiling information using py-spy
  - Write unit tests and Ansible scripts
  - Follow PEP8 coding style using Flake8 and Black
  - Collaborate with frontend engineers
  - Manage tasks and bugs using Jira Software
  - Review merge requests
  - Tutor working students
  - Participate in technical interviews for new joiners
  - Used technologies: Python · Django · Apache Kafka · MongoDB · REST APIs · WebSocket · Agile Methodologies · Docker · Object-Oriented Programming (OOP) · Unified Modeling Language (UML) · Representational State Transfer (REST) · Swagger API · Postman API · Nginx · Celery · Slack · Jira · Git · NoSQL · JSON · Scrum · Unit Testing · Linux · Ansible
- 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

Munich, Germany

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- Aug. 2020 – **Data Science Intern (Master Thesis)**, *KAMAG Transporttechnik*, Ulm, Germany
- Feb. 2021
- 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.

## 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.
- 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).
- 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.

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## Skills

- **Programming Languages** Python, R, C++, C#, Java, and C
- **Stream processing** Kafka and Faust (Python)
- **Data Science** TensorFlow, Keras, Scikit-learn, Pandas, Seaborn, and AzureML
- **Web** RESTful APIs, Swagger, Django, Flask, Node.js, Express.js, Vue.js, Cutelyst (C++), WebSockets, Postman
- **Database** SQL (MySQL) and NoSQL (MongoDB)
- **Unified Modeling Language** UML (Modelio)
- **DevOps** Docker, Ansible, Jira, Confluence, Slack
- **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)

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## 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.