



Khaled Jallouli

Software Engineer at PreciBake

Personal Information

Name Khaled Jallouli
Adresse Munich, Germany
Phone +49 1590 6431528
E-Mail jallouli.khaled@icloud.com
Date of birth September 06, 1995
Place of birth Nabeul, Tunisia
Nationality Tunisian
Portfolio <https://khaledjallouli.github.io>
LinkedIn <https://www.linkedin.com/in/khaled-jallouli>
XING https://www.xing.com/profile/Khaled_Jallouli

Experience

- Since Apr. 2021 **Software Engineer, PreciBake GmbH, Munich, Germany**
- Implement microservices within cloud environments using Django and FastAPI.
 - Contribute to technical documentation in Confluence, providing specifications and feature definitions. Ask for feedback from the team before implementation to ensure alignment with project goals.
 - Create Jira tickets encompassing features, tasks, and backend-related bug fixes, facilitating organized and traceable project management.
 - Architect RESTful APIs with Swagger.
 - Define Kafka Streams data and topics utilizing Faust as a streaming processing library.
 - Design and implement aggregation pipelines with MongoDB, optimizing data processing and retrieval for improved system efficiency.
 - Employ Python Type Annotations and Mypy as a type checker to enhance code readability and maintainability.
 - Deploy applications with Docker, Podman, and Kubernetes.
 - Follow Trunk-based development as a version control management practice.
 - Uphold PEP8 coding style using Flake8 and Black, maintaining a consistent and readable codebase.
 - Develop unit tests and Ansible scripts.
 - Collaborate with frontend engineers.
 - Adhere to ISO 27001 practices with a primary focus on ensuring data security assurance and conducting thorough risk assessments.
 - Conduct thorough code reviews to maintain code quality, identify improvements, and share knowledge within the development team.
 - Mentor and tutor working students.
 - Participate in technical interviews for new joiners.
 - Used technologies: Python · FastAPI · Django · Microservices · Kubernetes · Apache Kafka · MongoDB · REST APIs · WebSocket · ISO 27001 · Agile Methodologies · pytest · 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

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- 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.
- Jun. 2018 – Aug. 2018 **Web Development Intern**, *Leads Generation*, Concarneau, France
- 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 – Aug. 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.
 - Used technologies: WordPress, HTML 5, CSS 3, PHP, and Mailjet.
- Jan. 2017 – 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 using UML diagrams and develop a web platform.
 - Used technologies: UML, PHP, MySQL, JavaScript, HTML 5, CSS 3, Bootstrap, and AJAX.

Education

- Oct. 2019 – Mar. 2021 **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.
- Sept. 2017 – Mar. 2021 **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.
- 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.

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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, Swift, 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, FastAPI, Django, Flask, Node.js, Express.js, Vue.js, Cutelyst (C++), WebSockets, and Postman
- **Database** SQL (MySQL) and NoSQL (MongoDB)
- **Unified Modeling Language** UML (Modelio)
- **DevOps** Kubernetes, Docker, Podman, Ansible, Jira, Confluence, and 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)

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.