

MOHAMED EL ZAREI

Munich, Germany

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EDUCATION

Technische Universität München

Oct. 2019 - June 2022

M.Sc. in Informatics.

GPA: Passed with distinction (1.5)

German University in Cairo

Oct. 2014 - July. 2019

B.Sc. in Computer Science & Engineering.

GPA : Excellent (A+).

SKILLS

Backend	NodeJS, Python , Java, C++, SPARQL, PostgreSQL, MySQL and MongoDB.
Front End	Javascript, ReactJS , VueJS 2.x, Angular 7.x, HTML5 and CSS.
Frameworks	FastAPI , NestJS, Tensorflow 1.0, Express, GraphQL, Koa, Flask.
DevOps	AWS, CDK, Docker, Kubernetes , Gitlab CI, Circle CI, Vagrant.

PROJECTS

Chord DHT

July 2020 - September 2020

<https://git.io/Jtaog>

Implemented a Peer-to-Peer Distributed Hash Table based on CHORD paper.

Designed & Implemented the communication protocol using Python3.

Quora Clone

Feb 2019 - May 2019

<https://gitlab.com/gitrekt-msa>

Lead a team of 20 People to develop a clone of QA Platform Quora.

Designed & Implemented a microservice architecture using Java Netty, Redis and RabbitMQ.

Implemented CI/CD pipeline using Gitlab Pipelines.

Deployed the platform to Google Cloud using Kubernetes.

RiteTag Browser Extension

Sep 2017 - Oct 2017

<http://bit.ly/2xB7QoJ>

Developed a chrome and Firefox extension to show hashtag suggestions using Javascript.

Developed an API using Google Cloud Vision to detect image labels and return suggestions.

Git Rekt

Feb 2017 - May 2017

<https://git.io/vpTZ4>

Lead a team of 8 people in a Scrum environment to develop a Full Stack application.

Designed and Developed RESTful APIs using NodeJS, Express and MongoDB.

Developed a Single page app for the APIs using VueJS.

EXPERIENCE

Amazon Web Services

October 2022 - Present

Software Development Engineer

Berlin, Germany

- Building AWS Managed Graph Database (Neptune).

Motius

January 2022 - Sep 2022

Working Student DevOps Engineer

Munich, Germany

- Develop and Manage Cloud Applications on AWS.
- Provision and Manage Kubernetes Cluster using Rancher and RKE2.
- Develop CI/CD Pipelines using Gitlab CI.

Amazon Web Services*Internship AWS-Neptune*

July 2021 - November 2021

Berlin, Germany

- Developed a database engine inside AWS Managed Graph Database using Java and C++.

Twaice*Working Student Cloud Engineer*

Nov. 2019 - June 2021

Munich, Germany

- Developed Machine Learning Infrastructure (MLOps) using AWS Sagemaker and Codebuild.
- Written Infrastructure-as-a-code for AWS Services using CloudFormation AWS CDK.
- Developed CI/CD pipelines using AWS Codebuild.
- Developed Microservices using NestJS and FastAPI Frameworks.

KlangerFinder*Junior Software Engineer*

June. 2018 - August 2019

Stuttgart, Germany

- Developed API for Sewio RTLS using NodeJS.
- Developed Mobile Applications for guided navigation inside Museums using React Native.

RiteKit*Junior Software Engineer*

May. 2017 - April 2018

Cairo, Egypt (Remote)

- Worked with a remote team to develop and maintain a social media automation Platform.
- Configured Docker for development instead of Vagrant.
- Developed Machine Learning Model to identify relevant emojis to text using Python and Nodejs.
- Added new features and improve the creation of quote images using Nodejs.