



Marko Pacak

Senior Java / Python
Computer Engineer

AWS Certified Developer



info@markopacak.com



markopacak.com



[in/markopacak/](https://in.linkedin.com/in/markopacak/)



[users/8524301](https://github.com/users/8524301)



github.com/markopacak

birth date 01.06.1991

citizenship swiss / croatian

Languages

italian	○	○	○	○	○
english	○	○	○	○	
german	○	○	○		
bosnian / croatian	○	○	○	○	○

since
09.2022

Galeria Karstadt Kaufhof GmbH Essen / Berlin (DE)

python typescript docker node gitlab-ci aws

- REST API design (Typescript, AWS API Gateway, Lambda, ECR, ECS)

09.2021
09.2022

Next Big Thing AG Berlin (DE)

python docker django flask iot gitlab-ci pandas aws

- REST API design (Python, AWS API Gateway, Lambda, EC2, AutoScaling)
- Transformations/analysis on sensor data (Pandas, IoT Core, Kinesis Streams, Lambda, S3)
- Pipeline Management (GitLab CI, AWS CodePipeline / CodeBuild / CodeDeploy)
- End-to-End solution design: back-ends for IoT/Data services (AWS API Gateway, ECS, Lambda, ELB, SQS, SNS, S3, RDS, DynamoDB)
- Decision making on technologies to use. Mentoring on AWS services

03.2018
12.2021

Freelance Software Engineer Berlin (DE), 03.2018 – 12.2021

Bryter GmbH since 06.2020

jvm kotlin aws openfaas gitlab-ci docker gradle

- Development of the bryter platform/framework
- Integration of 3rd party APIs: DocuSign, iManage, British commerce register...

NextBigThing AG since 01.2020

python docker django flask iot gitlab-ci pandas aws

- API design: algorithms/calculations of energy consumption and generation (AWS Lambda/EC2)
- Development of framework for data scientist (Pandas, Numpy, EC2, Lambda)
- End-to-End solution design: back-end services for the IoT industry (Python, Pandas, AWS Cognito, Lambda, EC2, SQS, RDS)
- Development of embedded sensor-reading functions (Python, METR MGate)

Digital Career Institute GmbH 09.2020 - 02.2021

javascript typescript node react

- programming teacher and 1-to-1 tutor

Auxolar GmbH 03.2018 - 01.2020

python c++14 raspbian make docker django embedded

- Development of algorithms for remote devices: management/monitoring of heating, smart-submetering, ...
- Development of embedded C++/python components deployed on remote boards (e.g: raspberry or METR M-Gate)

Assetmax AG 06.2018 - 06.2019

java python aws spring oauth docker

- Integration/installation of Assetmax software in banking systems
- Development of the Assetmax software (Java, Python, AWS)

more work experience
on page 2...

06.2017
06.2018

Assetmax AG Lugano / Zurich (CH)

java python angular aws spring oauth android docker

- Micro-services development (Java, Spring, On-Premise Servers, AWS EC2, ELB)
- API design: financial computations, asset management (Java/Python, On-Premise Servers, Lambda, EC2)
- management of external front-end teams
- integration of authentication protocols in banking applications: OAuth, Kerberos, SPNEGO, ...
- 3rd party API integration: Bloomberg, SIX, ...
- pen-test and system hardening: worked with one of the largest IT-Sec companies in Europe

07.2016
06.2017

IQ Center SA / Cloudbead SA Lugano (CH)

java angular aws android spring c++14 ffmpeg gstreamer

- Development of file-management-sync application on AWS (EC2, S3, Lambda)

01.2013
09.2013

BSI Bank SA (now EFG Bank) 01.2013 - 09.2013 Lugano (CH)

pgsql linux sql-server

Technologies

years



Qualifications and certifications

Bachelor of Science in Computer Science and Engineering

University of Applied Sciences of Southern Switzerland

09.2013 – 01.2017

Deep Learning Specialization [↗](#)

tensorflow pandas python numpy jupyter

DeepLearning.ai / Coursera

March 2021

Tensorflow Developer Specialization [↗](#)

tensorflow pandas python numpy jupyter

DeepLearning.ai / Coursera

April 2021

AWS Developer Associate - Certification [↗](#)

Amazon Web Services Certification Center

September 2022

Credential ID: Y5SHLSTC5JV41DWD

Community contributions

RenderThread vs UI Thread in Android: In-depth explanation [↗](#)

java android multithreading

Creating memory leaks in Java using a TreeMap: charts and memory analysis [↗](#)

java jmm data-structures

IT Security: NTLM vs Kerberos tokens debugging [↗](#)

java it-security active-directory

Nano: jump to the end of file [↗](#)

linux nano