

Marko Pacak Senior Software Engineer AWS Certified Developer

Contacts / Portfolios

info@markopacak.com

https://markopacak.com

https://github.com/markopacak

https://linkedin.com/in/markopacak

https://stackoverflow.com/users/8524301/marko-pacak

Languages

Italian	0	0	0	0	0	native / bilingual proficiency
English	0	0	0	0		full professionally proficiency
German	0	0	0			professional working proficiency
Bosnian	0	0	0	0	0	native / bilingual proficiency

Born: 01.06.1991 Nationality: Swiss / Croatian

Professional Experience

Galeria Kaufhof Karstadt GmbH Senior Software Engineer python typescript docker node jenkins aws Berlin (Germany), since 09.2022

- Designed and developed REST API (Typescript, AWS API Gateway, Lambda, ECR, ECS, DynamoDB)
- Ported code from Golang to Node/Typescript and Python

NextBigThing AG Senior Software Engineer python docker django flask iot node gitlab-ci pandas aws
Berlin (Germany), 09.2021 - 09.2022

- Designed REST API (Python, AWS API Gateway, Lambda, EC2, AutoScaling)
- Programmed transformations/analysis Lambdas processing sensor data (Pandas, IoT Core, Kinesis Streams, Lambda,
 S3)
- Developed and managed CI/CD pipelines (GitLab CI, AWS CodePipeline / CodeBuild / CodeDeploy)
- Designed end-to-end solutions and back-ends for IoT/Data services (AWS API Gateway, Kinesis, ECS, Lambda, ELB, SQS, SNS, S3, RDS, DynamoDB, Cognito, Cloudwatch alarms)
- Mentored the team on AWS services
- Helped create a unified framework (back-End template/laaC) that was used by more than 5 IoT ventures in NBT

Freelance Software Engineer

Berlin (Germany) / Switzerland, 03.2018 - 09.2021

- Bryter GmbH 06.2020 09.2021 jvm kotlin gitlab-ci openfaas docker gradle aws
 - Developed the bryter platform/framework
 - o Integrated 3rd party APIs: DocuSign, iManage, British commerce register...
 - Mentored external developers on how to use the framework
 - Helped improve multiple version of the Bryter framework that is now used by more than 50 clients worldwide
- NextBigThing AG 01.2020 09.2021 python django flask gitlab-ci docker pandas aws postgresql
 - o Designed REST API: algorithms/calculations of energy consumption and generation (AWS Lambda/EC2)
 - o Developed a framework for data scientist (Pandas, Numpy, EC2, Lambda)
 - Designed end-to-end solution and back-end services for the IoT industry (Python, Pandas, AWS Cognito, Lambda, EC2, SQS, RDS)
 - Developed embedded software for reading sensor data (Python, METR M-Gate)
- Digital Career Institute GmbH 09.2020 02.2021 typescript javascript node react
 - Programming teacher for a web-development curriculum
 - Tutored students on typescript and version control system
- Auxolar GmbH 03,2018 02,2021 python c++ raspbian make docker django embedded
 - o Developed algorithms for remote devices: management/monitoring of heating, smart-submetering, ...
 - Developed embedded C++/python components deployed on remote boards (e.g: raspberry or METR M-Gate)
- Assetmax AG 06.2018 06.2019 python java aws spring docker oauth postgresql
 - o Integrated the Assetmax software in banking systems

Assetmax AG Software Engineer python java angular aws spring docker oauth android postgresql Lugano / Zurich (Switzerland) 06.2017 - 06.2018 Developed micro-services (Java, Spring, On#Premise Servers, AWS EC2, ELB) Designed APIs for financial computations, asset management (Java/Python, On-Premise Servers, Lambda, EC2) Managed external front-end teams Integrated authentication protocols in banking applications: OAuth, Kerberos, SPNEGO, ... Integrated 3rd party API into Assertmax software: Bloomberg, SIX, ... Ran penetration attacks and hardened banking system: worked with one of the largest IT-Sec companies in Europe Helped automate the release of the Assetmax software within banking networks IQ Center SA / Cloudbead SA Junior Software Engineer java angular aws spring c++ ffmpeg gstreamer Lugano (Switzerland) 07.2016 - 06.2017 Developed a low latency file-management-sync application on AWS (EC2, S3, Lambda)

Education

Bachelor of Science in Computer Science and Engineering University of Applied Sciences of Southern Switzerland (SUPSI) Lugano (Switzerland) 09.2013 - 01.2017

Automated queries for customer data retrieval in PLSQL Automated processes/queries on the banking platform Avalog

Lugano (Switzerland) 01.2013 - 09.2013

Developed the Assetmax software (Java, Python, AWS)

BA thesis: Real-time streaming of video content over UDP/TCP using the gstreamer (C++) framework

BSI Bank SA (now EFG Bank) Back-Office Employee sql-server linux plsql

Supervisor: Prof. Leidi Tiziano

Certifications

AWS Certified Developer Associate

Amazon Web Services Certification Center, September 2022 Credential number: Y5SHLSTC5JV41DWD

Tensorflow Developer Specialization

DeepLearning.ai / Coursera, April 2021

Deep Learning Certification

DeepLearning.ai / Coursera, March 2021

Community Contributions

- RenderThread vs UI Thread in Android: In-Depth <u>explanation</u>
- Create memory leaks in Java using a TreeMap
- IT Security: NTLM vs Kerberos tokens debugging
- Nano: jump to the end of file

IT Skills and years of experience

•	java / kotlin	0000	4 years
•	python	00000	5 years
•	postgresql	0000	4 years
•	js/ts	0000	4 years
•	C++	00	2 years
•	django / flask	0000	4 years
•	spring	00	2 years
•	docker	00	2 years
•	gitlab / github	0000	4 years
•	aws	00	2 years
•	pandas / numpy	0	1 year