

Marko Pacak

C++ / Java / Python Computer Scientist

info@markopacak.com



markopacak.com



/in/markopacak/



users/8524301



github.com/markopacak

birth date 01.06.1991

citizenship swiss / croatian

• Freelance Software Engineer Berlin (DE), since 03.2018

Bryter GmbH since 06.2020

jvm kotlin aws openfaas gitlab-ci docker gradle

- · integrations for their decision-making platform
- APIs interfacing (to name a few) DocuSign, iManage
- support in development of their integration framework

NextBigThing AG since 01.2020

python docker django flask iot gitlab-ci pandas aws

- APIs and algorithms for energy consumption and generation
- · APIs interfacing inverters, meters and other hardware
- pandas-based framework for data scientist
- python serverless functions linked to django / flask apps
- design of AWS Cognito-based authentication system
- sensor-reading embedded python deployed in METR MGate

Digital Career Institute GmbH 09.2020 - 02.2021

javascript typescript node react

web-development / programming teacher & 1-to-1 tutor

Auxolar GmbH 03.2018 - 01.2020

python c++14 raspbian make docker django embedded

- algorithms for automated turn-on/off of energy inverters
- embedded c++ & python components deployed in gateways (e.g: raspberry or METR M-Gate)
- Django app for calculation and displaying of energy consumption/generation data

Assetmax AG 06.2018 - 06.2019

java python aws spring oauth docker

- integration of authentication protocols (Kerberos, ...)
- system hardening
- integration of the Assetmax software within banks

O Assetmax AG 06.2017 - 06.2018 Lugano / Zurich (CH)

java python angular aws spring oauth android docker

- micro-services in Spring
- API development: financial computations, asset management, stock trading, ...
- penetration testing and system hardening: worked with one of the largest IT-Sec companies in Europe
- financial data APIs integration: Bloomberg, SIX, ...
- integration of authentication protocols within banking systems: OAuth, Kerberos, SPNEGO, ...
- management of external front-end teams in development of new user interface
- scripts in Python / Bash. E.g. automated LetsEncrypt SSL certificate deployment within distributed banking systems

OPIO Center SA / Cloudbead SA 07.2016 - 06.2017 Lugano (CH)

java angular aws android spring c++14 ffmpeg gstreamer

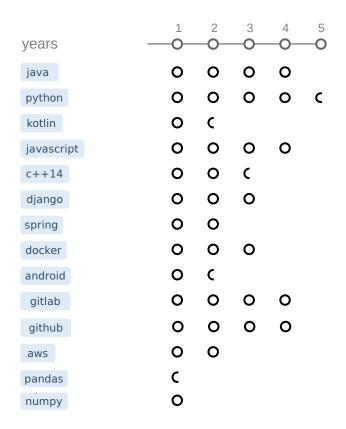
- development of file-hosting service built on AWS
- development of back-end software for media processing
- Support in software development for parent company IQ Center SA

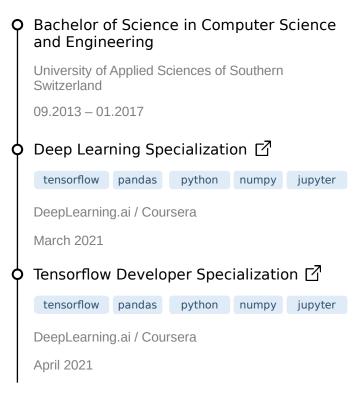
BSI Bank SA (now EFG Bank) 01.2013 - 09.2013 Lugano (CH)

plsql linux sql-server

Technologies

Qualifications and certifications





Languages

italian english german bosnian/ croatian

Contributions highlights

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: NTML vs Kerberos tokens debugging

java it-security active-directory

Nano: jump to the end of file

linux nano