

Andrea Pivetta

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Java, Kotlin, JavaScript, TypeScript, Python

Experience

Software Engineer, Advanon AG, Zürich (CH)

01/2018 - present

- Designed and developed a microservice architecture to acquire data about Swiss companies from public websites, using multiple AWS services (Lambda, S3, ElasticSearch, SQS...). The obtained knowledge was used to build a network graph of managers for collusion detection, to analyze the distribution of Swiss companies in space and time and for other related applications.
- Maintained and extended a SpringBoot application built with Java and Kotlin, reducing startup time by more than 50% while adding new features.
- Developed an open source Kotlin library to integrate SpringBoot applications with message buses built on top of SQS and SNS.
- Replaced a monolithic application with a set of Node.js microservices. Operations that were not possible due to memory limitations in the original implementation became very inexpensive, taking less than 1 second to complete.

Software Engineer, Ennova Research, Venice (IT)

04/2016 - 12/2017

- Designed and developed a microservice using TypeScript to mimic complex user interaction with a web application.
- Ported a Node.js project to ES6, reducing the lines of code by more than 30%.
- Developed a library to abstract the use of different NLP providers (LUIS, Wit, ...), to use them indifferently and to create applications programmatically.
- Lead the migration from traditional VMs to Docker containers for a multitude of applications.
- Addressed some problematic areas of an Android application such as RAM consumption, and ported it to Kotlin.

Personal Projects

- [kolor](#): a Kotlin library that uses ANSI codes to create colored strings. It has been downloaded more than 1 000 000 times.
- [Blum](#): Android Twitter client written in Kotlin, discontinued due to changes to the Twitter API. It was featured in [Kotlin Weekly #21](#).
- [monKey](#): Kotlin implementation of the monkey programming language.

Education

Bachelor Degree in Computer Engineering, University of Bologna, Bologna (IT)

03/2018

Thesis title: Managing Microservices in Kubernetes.

Certifications

AWS Certified Solutions Architect - Associate

06/2018