

Andrea Baldan

✉ a.g.baldan@gmail.com 📍 Rome, Italy ☎ 345 0515048

🎓 EDUCATION

UNIVERSITÀ DEGLI STUDI DI PADOVA
BSc Degree in Computer Science
Dec 2016 | Padova, Veneto

☰ SKILLS

PROGRAMMING

- OOP & Design Patterns
- FP
- TDD
- Requirements Analysis
- Scripting & Documentation
- Microservices architecture
- Serverless

TECHNICALS

- Languages:
C/C++, Java, Scala, Python, Bash, Haskell
- Databases:
MySQL/Postgres, Influxdb, Redis, MongoDB

LIBRARIES & FRAMEWORKS

- Flask
- Akka - Reactive Programming
- Apache Kafka and Kafka Streams

TOOLS

- Git
- GitHub/Gitlab/BitBucket
- Travis-CI
- Mosquitto
- Nginx
- Docker
- Kubernetes
- AWS Cloud

🔗 LINKS

- 🔗 codepr.github.io
- 🔗 github.com/codepr
- in [Andrea Baldan](#)

💼 EXPERIENCE

ELEMIZE TECHNOLOGIES S.R.L.

Software Engineer - Back end Developer | May 2017 - Current | Roma, Lazio
Back end development and architecture designer for an IoT infrastructure, with emphasis on scalability and reliability. Focus on serverless architectures, microservices development and deployment on AWS cloud.

NEXT - INGEGNERIA DEI SISTEMI S.P.A.

Software Engineer | Mar 2017 - May 2017 | Roma, Lazio
Main duties involved developing and testing of an Enhanced Testing Framework namely TESE-subsystem for an ATM system regarding european project 4Flight.

WARDA S.R.L.

Back End Developer Internship | Jul 2016 - Oct 2016 | Padova, Veneto
Designed and developed an event-driven prototype for the back end part of a DAM (Digital Assets Management) platform, based on a CQRS architecture with high performance and easy scalability, featuring Apache Kafka Streams libraries and functional programming in Scala.

🔧 SIDE PROJECTS

Sol C

Oversimplified MQTT broker written from scratch, which mimick mosquitto features. Implemented for learning how the protocol works, for now it supports almost all MQTT v3.1.1 commands on linux platform; it relies on EPOLL interface for multiplexing I/O.

Tasq Python

A simple task queue implementation leveraging zmq and a naive implementation of the actor model to enqueue jobs on local or remote processes.

Actorbase Scala, Java

A distributed high scalable NoSQL key-value database following Amazon DynamoDB model, based on the Actor model exposing REST API in Scala providing a CLI and a Driver to use it, featuring Akka. Developed with six other fellows. More info at scalatekids.github.io.

Gallery as a Stream Scala, Java

A prototype for the backend side of a DAM platform designed as a CQRS model, aimed to deliver great amount of data with high performance, scalability and great maintainability, featuring reactive programming with streams, developed in Scala with Apache Kafka Streams 0.10.x.x and Akka 2.4.10.

Memento C

Remote distributed hashmap implementation on top of an Epoll async TCP server, supporting basic operations and peer-to-peer distribution. Entirely written in C.

JAS Java

A mock system that abstract a simplified implementation of the actor model in Java, started as a Concurrent Programming project for a university course, I proceeded to extend it by adding remote actors and distribution over a cluster of nodes capabilities to the actor system.