

Andrea Baldan

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🎓 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, Go,
- 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 - Mar 2020 | Roma, Lazio
Back end development and architecture designer of an IoT infrastructure for innovative solutions on the field renewable energy, spacing from edge to cloud side, 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 <https://github.com/codepr/sol>
Lightweight MQTT broker, written from scratch. IO is handled by a super simple event loop based upon the most common IO multiplexing implementations.

llb <https://github.com/codepr/llb>
Dead simple event-driven load-balancer, Supports Linux (and arguably OSX) through epoll and poll/select (kqueue on BSD-like) as fallback

Ev <https://github.com/codepr/ev>
Lightweight dependency-free event library loosely inspired by the excellent libuv, in a single small header, based on the common IO multiplexing implementations available.

Tasq <https://github.com/codepr/tasq>
A simple task queue implementation leveraging zmq and a naive implementation of the actor model to enqueue jobs on local or remote processes

Narwhal <https://github.com/codepr/narwhal>
PoC of a very simple RESTful CI system orchestrating a pool of Docker containers

Gallery as a stream [Private repository](#)
A prototype for the backend side of a DAM platform designed as a CQRS model, reactive programming developed in Scala with Apache Kafka Streams and Akka

Memento <https://github.com/codepr/memento>
Remote distributed hashmap implementation on top of an Epoll async TCP server, supporting basic operations and peer-to-peer distribution. Entirely written in C