LUIGI**CLEMENTE**
SOFTWARE ENGINEER

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Experience

Discoup
SOFTWARE ENGINEER | DEVOPS

Vicenza
March 2023 - Present

- Design and implementation of a discount and coupon management and distribution platform in Elixir, using frameworks such as Phoenix LiveView and Ecto, ensuring high reliability and performance.
- Development of real-time features for the user interface with LiveView, optimizing the user experience without relying on external frontend frameworks.
- Design and implementation of unit tests (using ExUnit).
- Design and implementation of the databases used by the microservices (PostgreSQL).
- Design and implementation of the infrastructure on AWS using Terraform, including technologies such as RDS and EKS.
- Automation of build, test, and deployment processes through CI/CD pipelines, integrated with Kubernetes (using GitHub Actions and Helm).
- Cross-functional collaboration with the product team to transform requirements into scalable technical solutions.

AgileLab
DATA ENGINEER

Milan
October 2020 - February 2023

- Design and development of the DataMesh platform for the Enel data warehouse, using technologies such as Dremio, Spark, and Spring Boot, with programming languages Java, Scala, and Python.

Dottori.it
SOFTWARE ENGINEER

Milan
September 2019 - October 2020

- Development and maintenance of the Dottori.it web platform, a tool designed to help users find the best doctor or dentist in their city, facilitating contact between patients and doctors, and simplifying the appointment booking process.
- Design and implementation of a microservices architecture using Elixir, Phoenix, and Ecto.
- Design and implementation of unit tests (using ExUnit).
- Design and implementation of the databases used by the microservices (PostgreSQL).
- Deployment of the application on a Kubernetes cluster.

ATS S.p.A.
SOFTWARE ENGINEER | DEVOPS (AS APULIASOFT EXTERNAL CONSULTANT)

Milan
October 2018 - August 2019

- Development of BlinkS platform, a digital marketplace for non performing loans trading. Restful backend written in Scala with AkkaHttp and Angular for the frontend.
- Design and development of rest api and Angular components.
- Design and development of unit test (using ScalaTest, ScalaMock and Scala macro).
- Design and development of release and build pipelines using GitLab CI tools.
- Configuration of test and production environment on Azure (Kubernetes, MySQL).
- Application deployment on Kubernetes.
- Securing application using ModSecurity with CRS and custom rules on ingress nginx.

SIA S.p.A.
SOFTWARE ENGINEER (AS APULIASOFT EXTERNAL CONSULTANT)

Milan
January 2018 - September 2018

- Development of the new message broker version of PagoPA® system (named "Nodo dei Pagamenti SPC"), a reactive system which uses Scala, scalaxb, Akka and Akka Cluster to handle payments flows between the involved stakeholders and the government.
- Design and development of tests for "Nodo dei Pagamenti SPC" (using Scalatest).
- Design and development of application-based release pipelines with Jenkins.
- Release of application components on OpenShift cluster in test environment.

Exprivia S.p.A. *Molfetta*
SOFTWARE ARCHITECT (AS APULIASOFT EXTERNAL CONSULTANT) *May 2016 - December 2017*

- Design and development of an engine, using TypeScript and Angular2, able to emulate Oracle Forms functionality and therefore run old Oracle Forms application on modern browsers.
- Maintenance of a tool to convert Oracle Forms save files into JSON/TypeScript format files, using Java and ANTLR.
- Use of git and gitflow to manage the development process.
- Design and development of widgets for the home banking of Banca Mediolanum, using Google Closure lib, D3js and C3js.

ApuliaSoft S.r.l. *Bari*
SOFTWARE ENGINEER *October 2015 - August 2019*

- Development of www.dolcidee.it, a web community where people can share recipes and cooking advice, using PHP and Symfony 2.
- Design and development of a Slack bot, written in JavaScript and deployed on Heroku, that help monitoring activities and happiness of the employees through questions made by the bot at the end of every working days.
- Design and development of a tool to optimize the disposition of articles into pallet displays for supermarkets, using TypeScript and Angular2.

Other *Bari*
SOFTWARE ENGINEER *August 2010 - May 2014*

- **My Special Gift s.r.l.s.** - Design and development of the MySpecialGift web platform for managing and sharing gift lists.
- **DigitalCopy s.r.l.** - Design and development of a management software for small and medium sized supermarket.

Skills

Programming	Elixir, Scala, Java, TypeScript, C#, PHP, Python, SQL
Front-end	HTML5, SASS, LESS, Tailwind
Databases	MySQL, PostgreSQL, SQL Server, MongoDB, Elasticsearch, Redis
Back-end	Phoenix, Ecto, Apache Spark, Akka
DevOps	Kibana, Docker, K8s, Helm, Terraform, AWS, Microsoft Azure
Tools	Git, IntelliJ, Vim, VS Code, Tmux
Languages	Italian, English

Education

University of Bari "Aldo Moro" *Bari*
BCS IN COMPUTER SCIENCE, 110/110 *April 2016*

Thesis: Applicazioni di Reti Neurali Ricorrenti al PoS-Tagging di Testi

Certifications

The Linux Foundation *2021*

- Certified Kubernetes Administrator (License number: LF-c55jbv7gct)

Coursera *2017*

- Functional Programming Principles in Scala (License number: 85UUFRQVJ75F)
- Functional Program Design in Scala (License number: BYV4DHVGYYDU)
- Parallel programming (License number: 6BX9A2UTCGAX)

MongoDB University *2014*

- M101P MongoDB for Developers