

# Nicola Moretto

SOFTWARE ENGINEER

Italy

☎ (+39) 333 4527335 | ✉ [n.moretto@nicolamoretto.eu](mailto:n.moretto@nicolamoretto.eu) | 📞 [nicola88](#) | 🌐 [nmoretto](#) | 📧 [nicola.moretto88](#) | 📧 [n.moretto](#)

## Summary

I'm a Software Engineer with 5+ years of experience in the design and development of software systems based on various technology stacks and interested in devising the best architectural and engineering solutions to build reliable, scalable and maintainable applications.

## Experience

### Previnet

Treviso, Italy

SOFTWARE ENGINEER

October 2017 - Present

- Building Scala and Python applications based on Apache Kafka
- Built a Python web application using Pyramid and RASA NLU for chatbot applications
- Built a Java back-end using MongoDB for chatbot applications
- Collaborated with data scientists to create and improve NLU models for intent and entity recognition
- Installed and configured an Ubuntu server to train NLU models

### Tykli

Torino, Italy

SOFTWARE ENGINEER

December 2014 - September 2017

- Implemented semantic text analysis algorithms using Scala and Apache Spark
- Built a Java component to schedule and run jobs on a Spark transient cluster on AWS EMR
- Built a Java application for document text extraction (e.g. PDF, XML, MS Office, ...)
- Designed and optimized PostgreSQL queries for information retrieval (JSON, full-text search, ...)
- Mentored a master degree student working on a Computational Linguistics thesis focused on automatic analysis of text complexity
- Installed, configured and tested Tykli on-premises installations
- Collaborated on design, implementation and testing of Tykli public API

### Studio Lorenzo

Treviso, Italy

SOFTWARE ENGINEER

May 2013 - June 2015

- Built a web application for consulting activities of accounting firms using Symfony PHP framework and AWS S3
- Redacted technical documentation for legal certification by Italy's CNR (National Research Council)

## Education

### Università degli Studi di Padova

Padova, Italy

BACHELOR'S DEGREE IN COMPUTER SCIENCE

September 2008 - December 2012

Graduated with a thesis on the design and development of a UI to retrieve user-provided content on a thematic web platform ([Italian version](#)).

## Skills

**DevOps** AWS, Docker, Ubuntu

**Back-end** REST API, PostgreSQL, MongoDB, Redis, Apache Spark, Apache Kafka, NLP

**Programming** Python, Java, PHP, Scala, SQL

**Languages** Italian, English

## Presentations

### Torino Coding Society

Torino, Italy

POSTGRE(No)SQL - A JSON JOURNEY

May 2017

A detailed presentation of PostgreSQL binary JSON data type. Presentation resources are available [on GitHub](#).

## Certifications

### Coursera

BIG DATA ANALYSIS WITH SCALA AND SPARK

May 2019

**Coursera**

PARALLEL PROGRAMMING

May 2019

**Coursera**

FUNCTIONAL PROGRAM DESIGN IN SCALA

April 2019

**Coursera**

FUNCTIONAL PROGRAMMING PRINCIPLES IN SCALA

April 2019