



# NICOLA CASTALDO

## Software and Data Engineer

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## EXPERIENCE

### Technical Analyst

OverIT

April 2021 — present · Udine, Italy

- Worked closely with business analysts to interpret and write technical requirements and collect feedbacks and bug reports for new software functionalities
- Collaborated with development teams to design the data and object models, process flows, user experience, page layouts and system integration structures
- Distributed development tasks across multiple developers and carried on code reviews on development outputs
- Tested and reviewed technical documents and conducted hands-on practical sessions with international partners

### Software and Data Engineer

Fondazione Bruno Kessler

May 2019 — April 2021 · Trento, Italy

- Worked in an interdisciplinary team and actively participated to various research projects that resulted in scientific papers
- Designed and developed scalable processing pipelines to analyze, integrate and efficiently store data coming from multiple sources and in different formats
- Deeply dived into data visualization techniques specific formation courses
- Designed and developed a full-stack application to process, store and dynamically visualize NLP analyzed text data with dynamic and interactive charts and maps
- Designed and deployed the cloud infrastructure to host different interconnected Linux based VMs for high computing tasks

## EDUCATION

### M.Sc. Computer Science and Engineering

Politecnico di Milano

10/2016 — 4/2019 · Milano, Italy

### Erasmus+ Study

Universitat Politecnica de Valencia

9/2015 — 1/2016 · Valencia, Spain

### B.Sc. Computer Science and Engineering

Politecnico di Milano

10/2013 — 10/2016 · Milano, Italy

## PROJECTS

### covid19obs

February 2020 — November 2020 · Trento, Italy

The "Infodemics" observatory, about the dissemination of fake news, funded by WHO: a web application that permits the interactive visualization of social networks data coming from a multi-platform NLP based processing pipeline - [Web App](#) - [GitHub](#)

### d3nic

May 2019 — April 2021 · Trento, Italy

A D3.js based library to create interactive and dynamic charts, built with functional programming paradigms, object composition patterns and JavaScript ES6 features - [GitHub](#)

### data-explorer-chatbot

October 2018 — April 2019 · Milano, Italy

A chatbot to explore of a generic SQL database by means of a dynamic conversation, created with the RASA NLU library and exposed as a Telegram bot - [GitHub](#)

## PROGRAMMING

JavaScript



Python3



Java



C



TypeScript



## SKILLS

Software Engineering

Algorithms

Functional Programming

OOP

Technical Analysis

Data Visualisation

## TOOLS

D3

Vue

Vuetify

CSS

Leaflet

Node

MongoDB

SQL

Pandas

Jupyter

Docker

Confluence

Jira

## PUBLICATIONS

Emergence of knowledge communities and information centralization during the COVID-19 pandemic

2021 · Social Science & Medicine 285, 114215

P. Sacco, R. Gallotti, F. Pilati, N. Castaldo, M. De Domenico - [Paper](#)

Assessing the risks of 'infodemics' in response to COVID-19 epidemics

2020 · Nature Human Behaviour 4 (12), 1285-1293

R. Gallotti, F. Valle, N. Castaldo, P. Sacco, M. De Domenico - [Paper](#)

### Conversational Data Exploration

2019 · ICWE 2019, Lecture Notes in Computer Science, vol 11496

N. Castaldo, F. Daniel, M. Matera, V. Zaccaria - [Paper](#)

## LANGUAGES

Italian



English



Spanish



Friulian

