# NICOLA CASTALDO

## Software | Data | Full Stack | Engineer

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## 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 | ●●●●● |

## EXPERIENCE

### Technical Analyst

**OverIT S.p.A.**

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