

# Emanuele Viglianisi – Résumé

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I'm a Data and Software Engineer working on Cloud solutions for processing streaming of data and deploying data products. I'm passionate about Python and I love working on innovative data-driven applications.

## Experiences

- 2020 - Now**      **Data Engineer at Runtastic GmbH**  
I'm working on migrating our existing on-premise analytics architecture (Hadoop, Impala, Data Warehouse) to the cloud (Databricks, Azure).  
*Technologies:* Python, PySpark, Databricks, Microsoft Azure
- 2018 - 2019**      **Software Engineer and Researcher at Fondazione Bruno Kessler (FBK)**  
I worked on a European funded project (EIT Digital) in the fintech domain. I developed a new state-of-the-art blackbox testing tool to run functional and security tests on RESTful APIs. Previously, I worked on a block-box security testing tool for Ethereum Smart Contract.  
*Technologies:* Python, Z3, Blockchain (Ethereum), Solidity, Web3JS, Truffle Framework, Node.JS, Java, Gradle, Swagger, Docker, JUnit
- Mar-Jul 2016**      Internship and Bachelor thesis at *JOL WAVE TIM* on the project The Social Picture  
Thesis: *Mobile Interface for acquiring images, automatic tagging and captioning.*

I like having side-projects to gain new skills and concretize personal ideas and ambitions. My projects are focused on security testing, data analysis, web and mobile applications. Most of them are available on my Github page.

## Education

- 2016-2018**      MSc. in Computer Science at the University of Trento - full marks with honours  
Machine Learning, Big Data, Data Mining, Security Testing, Computer Vision, Distributed Systems
- 2013-2016**      Bachelor of Computer Science degree at the University of Catania - full marks with honours  
Object Oriented Programming, Algorithms, Software Design, Internet Security

## Publications

- RESTTESTGEN: Automated Black-Box Testing of RESTful APIs (**Distinguished Paper Award**)  
*E Viglianisi, M Dallago, M Ceccato*  
2020 IEEE 13th International Conference on Software Testing, Validation and Verification (ICST)
- A federated society of bots for smart contract testing  
*E Viglianisi, M Ceccato, P Tonella*  
Journal of Systems and Software, 110647

## Conferences and Webinars

- Developing ML-enabled Data Pipelines on Databricks using IDE & CI/CD at Runtastic.  
*Data+AI Summit Europe, 2020-11-18 and Webinar, 2020-10-20*  
*Emanuele Viglianisi, Michael Shtelma*