Michele **Proverbio**

DATA SCIENTIST · SOFTWARE ENGINEER

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Summary

Currently working as a Data Scientist in Rome, Italy. 5+ years work experience in IT and Data Science specializing in Machine Learning and Computer Security. Passionate about Linux, open source and inclusive free software development. Knowledge enthusiast constantly learning physics, math and natural sciences with an attentive look at the future.

Work Experience

Integris SpA - Cons. Bridgestone EMIA
Rome, Italy

DATA SCIENTIST
May. 2020 - Current

- Designed and developed a ML model for tyre mounted sensors in Pytorch using high performance data cleaning pipelines in Julia.
- Built OLAP dashboards in Microsoft Insights for cloud analytic.
- Developed data pipelines on the Azure data lake using Apache Spark and Databricks notebooks.
- Created a dashboard for online analytic using Microsoft PowerBI.
- Designed and developed a ML model for tyre wear using time series modeling in Pytorch.

Onit Group
Cesena, Italy

SYSTEM ADMINISTRATOR - DATA SCIENTIST
Apr. 2015 - Dec. 2018

- Managed and re-engineered the IT infrastructure for Confargricoltura Forlì-Cesena-Rimini from hardware to software to IT service.
- Designed an AI algorithm for a Master Data Management software in order to match records from different databases on a semantic level, using Natural Language Processing techniques with Gensim.
- Hot-swapped a kernel image on a critical Linux/CentOS server remotely.
- Managed internal and external Active Directory infrastructures (including Microsoft Exchange, IIS, SQL Server and others.)
- Main team referral for Linux systems.

Teachings

2019	**MongoDB and NoSQL for BigData,** 24 hour course on MongoDB part of a specialization degree program on Data Science.	*Milan, Italy*
2012	**Ubuntu Linux and Trashware,** From hardware to software. All around course to jump start the town Trashware program.	*Senigallia, Italy*

Education

Università di Bologna
Cesena, Italy

MASTER'S DEGREE IN COMPUTER SCIENCE AND ENGINEERING
Oct. 2015 - Mar. 2020

- Key courses choices focusing on Artificial Intelligence and Data Science.
- Thesis in Continual Learning. Study and implementation of the Growing Dual Memory technique.

Università di Bologna
Cesena, Italy

BACHELOR'S DEGREE IN COMPUTER SCIENCE
Oct. 2011 - Mar. 2015

- Thesis in authentication systems security

Certifications

Apr. 2020 **Machine Learning,** Stanford Machine Learning course held by Professor Andrew Ng   *Stanford, Coursera*

Extracurricular Activity

CeSeNA (CeSeNA Security Network and Applications)
Cesena, Italy

MEMBER
2011 - 2020

- Took part in numerous international CTF and Wargame competitions on hacking and computer security.
- Studied and practiced Assembly reverse engineering for executable exploiting.
- Studied and practiced numerous web and network security exploits like SQL injection and Cross Site Scripting among others.
- Took part in lectures for the students of the University of Bologna, teaching Ethical Hacking and Techniques.

Skills

Languages

WRITING, LISTENING AND SPEAKING

- Italian: Native
- English: Proficient

Programming Languages

GENERAL PURPOSE PROGRAMMING LANGUAGES

- Python: Excellent
- C: Proficient
- C++: Proficient
- Julia: Experienced
- Bash: Experienced
- Js, Java, Lua: Familiar

Data Science

LIST OF TECHNOLOGIES I HAVE EXPERIENCE WITH

- general purpose: Pandas, Numpy, Scikit, Apache Spark, Kafka
- ML: PyTorch, Tensorflow, Gensim, Flux.jl
- DB: MongoDB, Hive, MySQL, Google Firestore
- Dashboarding: PowerBI, Databricks, Tableau

Sysops

LIST OF TECHNOLOGIES I HAVE EXPERIENCE WITH

- Cloud: GDP, AWS
- Sys Admin: Active Directory, Apache, Nginx, Firewalls
- Systems: Arch, Ubuntu, CentOS, Debian, MSW Server, MS Windows

Web Development

LIST OF TECHNOLOGIES I HAVE EXPERIENCE WITH

- Frameworks: Angular 7, Bootstrap, Middleman
- Markup: CSS3, HTML5
- Template Engine: Jinja2, Django

Competitions

2018	**VarGroup Hackaton,** AI-powered knowledge base and on-site operator assistance. Sponsored by Apple, Cisco Webex.	*Riccione, Italy*
2017	**VarGroup Hackaton,** Machine Learning in breaks industry R&D. Sponsored by IBM Watson.	*Riccione, Italy*
201*	**IT Security,** Wargames with CeSeNA security group. RuCTF, DEFCON Qualifiers, Insomnihack and 0ctf among others.	*Cesena, Italy*
2009	**RoboCup Jr.,** National high school robotics competition.	*Turin, Italy*