

Giuseppe TOSCANO



01/13/1998 ENNA (EN) ITALY

Nationality: Italian

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EDUCATION

- 03/25/2020 - 04/13/2022 * **Master's Degree in Computer Engineering**
Politecnico di Torino
Thesis: Angler Phishing: detection of support fraud accounts on social networks
Supervisors Mellia M.
Final grade 105/110
- 09/13/2016 - 03/17/2020 * **Bachelor's Degree in Computer Engineering**
Politecnico di Torino
Final grade 95/110
- 2016 **high school diploma MATURITA' DI LICEO SCIENTIFICO P.N.I.**

PROFESSIONAL EXPERIENCE

- 05/02/2022 - up to present **Penetration Tester**
Spike Reply S.R.L. - Turin - ITALY
My role is to find security vulnerabilities in a computer system and exploit them to perform attacks. The term "vulnerability" is to be taken in a broad sense: it is not necessarily a security breach making it possible to remotely take control of a machine, which is the ultimate flaw, but the term "vulnerability" can stand just for the disclosure of information by a system that can give indications to a hacker to develop its attack. Actually, I perform WAPTs (Web Application Penetration Tests) for an international customer belonging to the Financial Services industry.
Permanent Employment
- 10/21/2021 - 04/05/2022 **Thesis worker**
Ermes Cybersecurity S.R.L. - Turin - ITALY
As a thesis project, I built a Random Forest classifier capable of detecting, with a great accuracy, the Twitter customer support fraud accounts related to a given company.
Programming language used: Python
Thesis project
- 01/11/2021 - 10/20/2021 **Full Stack Developer**
SoftwareDue S.R.L. - Turin - ITALY
Web application development for the sale and rental of real estate properties.
Programming languages used: Typescript (front-end), Java (back-end), and Python (for external applications).
Frameworks used: Angular (front-end) and Spring Boot (back-end)

Relational database (MySQL)
 AWS services used: IAM, S3, EC2, ECS, ECR, Cognito, Lambda functions, Cloud Watch, and API Gateway
 Docker, Docker Compose e Docker Swarm
 Apprenticeship

10/15/2019 - 12/10/2020

Full Stack Developer

SoftwareDue S.R.L. - Turin - ITALY

Web application development commissioned by the Turin Airport.
 Programming languages used: Typescript (front-end) and Java (back-end)
 Frameworks used: Angular (front-end) and Spring Boot (back-end)
 Relational database (SQLServer)
 AWS services used: S3 e API Gateway
 Docker, Docker Compose, and Docker Swarm
 Internship

LANGUAGE SKILLS

Mother tongue Italian

Other languages

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user

[Common European Framework of Reference for Languages](#)

Language certificates

2019 IELTS : 6

COMPUTER SKILLS

OPERATING SYSTEM

Good knowledge of Windows and some Linux distributions (especially Ubuntu and Kali).
 good level

PROGRAMMING
 LANGUAGE/CODE

C, C++, Java, Kotlin, Python, MATLAB, Javascript, Typescript, HTML, CSS, React, Angular, Kotlin, and React Native.
 advanced level

PROGRAMS/SOFTWAR
 E

Good knowledge of some tools for the web application development (in particular Eclipse, CLion, PyCharm, Postman, Visual Studio Code, WebStorm, and Android Studio).
 good level

DATABASES

Basic and advanced constructs for SQL (standard version, SQLServer and MySQL), triggers, ER model, data warehouse, data mining algorithms, and big data processing (Hadoop and Spark).
 advanced level

OTHER

I also know discreetly Bash, GIT, some AWS services (especially IAM, S3, EC2, ECS, ECR, Cognito, Lambda functions, Cloud Watch and API Gateway), Docker, Openstack, Kubernetes, and Ansible.

OTHER INFORMATION

Driving license

EXAMS *

Master's Degree in Computer Engineering

conference date	Exam	Credits	Final grade
02/07/2020	Data Science e Tecnologie per le Basi di Dati	8	23
02/12/2020	Information systems security	6	20
02/21/2020	Computer architectures	10	30
06/22/2020	Software Engineering	8	28
07/13/2020	Web Applications I	6	27
07/21/2020	Cryptography	6	26
09/12/2020	System and device programming	10	27
01/25/2021	Security verification and testing	6	28
01/29/2021	Cloud Computing	6	27
02/23/2021	Cybersecurity	6	22
02/25/2021	Big data: architectures and data analytics	6	29
06/28/2021	Networks services and technologies	6	28
07/01/2021	Mobile application development	6	30 cum laude
04/13/2022	Thesis	30	passed

Bachelor's Degree in Computer Engineering

conference date	Exam	Credits	Final grade
01/31/2017	Mathematical analysis I	10	18
06/23/2017	Computer science	8	29
06/27/2017	Linear Algebra and Geometry	10	27
07/17/2017	History of Technology	6	19
02/02/2018	Electrical circuits and Network Analysis	8	22
02/13/2018	Algorithms and Programming	12	19
06/18/2018	Mathematical analysis II	8	30
06/29/2018	Object-oriented programming	8	27
07/02/2018	Database	8	28
07/04/2018	Computer systems	8	26
07/19/2018	Physics I	10	26
01/28/2019	Signal theory and Signal processing	8	24
02/01/2019	Operating systems	6	24
02/07/2019	Computer networks	8	24
02/07/2019	Final essay	1	24
02/15/2019	Electronic systems, technologies and measurements	10	24
02/26/2019	Physics II	6	23
06/17/2019	Chemistry	8	22
06/28/2019	Applied Electronics	8	25
07/01/2019	Mathematical methods for engineers	10	30 cum laude
07/04/2019	Automatic control	10	22
10/12/2019	English Language 1st level	3	passed
01/20/2020	Professional Training	10	passed

* Fields marked with an * are certified by Politecnico di Torino, while the potential thesis description is added by the candidate.