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Alessia Michela Di Campi

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● WORKING EXPERIENCE

06/06/2014 – 01/07/2014 Meolo, Italy
CASHIER

Cashier for takeaway pizzeria

04/01/2017 – 18/05/2017 Jesolo, Italy
PROGRAMMERSTEFANO LASIER

Creation of an e-commerce site for an electronics company.
Management creation for assistance

2017 Spinea, Italy
SITE CREATIONDIANAROSE

Rework of an old website (not created by me) for florist.
dianarose.it

11/15/2018 – 02/15/2019 Martellago
WEB DEVELOPER AND DESIGNERCHECCHIN SOFTWARE

Replacement of the old website (not created by me). Creation
of client and management-like administrative parts.
checchin.eu

15/06/2017 – 20/08/2017 San Vincenzo
WAITER/WAITRESSNEW HEMINGWAY

01/07/2017 – 14/08/2017 San Vincenzo, Italy
SECRETARY/SECRETARYINKSANITY

01/13/2019 – CURRENT Spinea, Italy
WEB DEVELOPER AND DESIGNERDIANAROSE

Creation of an e-commerce site for florist with adjoining administration part for the management of
shop.dianarose.it products

01/01/2019 – CURRENT Mestre, Italy
EVENT ORGANIZATION ASSISTANTDEA EVENTS

Non-profit event organisation.
I take care of the web part, advertising and leafleting.

01/08/2019 – 31/08/2019
WEB DEVELOPERFISNET

Completely autonomous website creation for fisnet.it.
I also took care of deleting images owned by them from Google search which were still present even though they had deleted them.
I took care of the SEO, therefore of the appearance on the first page.

01/08/2019 – 30/08/2019 Mestr, Italy
WEB DEVELOPERMARTA BROCCA PSYCHOLOGIST

Creation of a web showcase, with the possibility of making an appointment and leaving a review. I took care of the SEO, therefore of the site's appearance among the first searches.

05/01/2019 – 07/16/2021 Mestre, Italy
WEB DEVELOPERBP2 DATOSYSTEM

Developing for a management system for issuing naval tickets Developing features for an air conditioning management system and more

01/08/2021 – 03/03/2023 Venice, Italy
FULL STACK DEVELOPERCOCAIEXPRESS

• Full stack developing a delivery company in Venice

02/01/2020 – CURRENT Mirano, Italy
COMPUTER TEACHER IN SECONDARY SCHOOLSERENISSIMA STUDY CENTER

1. IT:
- **Curriculum Development:**Develop and update educational materials so that they are in line with current industry standards and technological developments.
- **Instruction:**Conducting engaging and informative lessons on computer science topics, including programming languages, algorithms, data structures, and software development.

2. Operating Systems:
- **Theory and Practical Application:**Teach students the principles of operating systems, covering topics such as process management, memory allocation, file systems, and security.
- **Practical experience:**Provide hands-on exercises and projects to help students gain hands-on experience working with various operating systems.

3. Technologies and Design:
- **Emerging Technologies:**Keep up to date with the latest trends and technologies in the industry and incorporate them into your resume.
- **Design Principles:**Teach design principles related to user interfaces, user experience, and overall systems design.

4. Telecommunications:
- **Network Fundamentals:**Educate students about basic networking concepts, including protocols, routing, and network security.
- **Telecommunications Systems:**Cover topics such as telecommunications infrastructure, data transmission and the operation of communications networks.

5. Secondary School:
- **Rank Levels:**Adapt teaching methods to suit the ages and understanding levels of students in second grade.
- **Student Evaluation:**Develop and implement fair assessment methods to assess student understanding and progress.

General Responsibilities:
- **Classroom Management:**Maintain a positive and inclusive learning environment, ensuring students feel comfortable exploring and asking questions.
- **Professional Development:**Keep up-to-date on educational trends, participate in workshops, and seek professional growth opportunities.
- **Communication:**Communicate regularly with students, parents and colleagues to provide updates on student progress and discuss any concerns.
- **Innovation:**Encourage innovation and critical thinking among students, fostering a passion for technology and problem solving.

Occasional performance contract

2020 – CURRENT Venice, Italy
TEACHING ASSISTANT (MULTIPLE COURSES)CA' FOSCARI

I am a university tutor and teaching assistant at Ca' Foscari University, with experience in different disciplines. I have worked as a tutor for advanced courses in algorithms, databases, computer science challenges, object-oriented programming, software engineering, and security. My teaching and tutoring activities began in 2020.

Brno, Czechia
TUTOR INFORMATION SECURITY AND CRYPTOGRAPHYMAZARYKOVA UNIVERZITA

The goal is to teach students to:
explain the importance of information privacy and illustrate with examples the negative impacts of its violation;
show the advantages and disadvantages of basic methods for cybersecurity and privacy; judge the impact of the use of information technologies on personal data and judge the ethical aspects of the solutions considered;
explain the importance of a correct approach to security starting from risk analysis, through security policy up to the development and management of mechanisms, in particular those based on cryptography;

evaluate the suitability of using selected tools to support security and privacy.

Brno, Czechia
TUTOR LABORATORY OF SECURITY AND APPLIED CRYPTOGRAPHYMAZARYKOVA UNIVERZITA

The objective of this subject is to understand the implementation details of cryptographic algorithms and protocols and be able to apply the knowledge gained in practice. At the end of the course, students should be able to design and implement cryptographic applications based on the most commonly used cryptographic libraries.

EDUCATION AND TRAINING

01/09/2011 – 21/05/2016 San Donà di Piave, Italy
COMPUTER EXPERT Itis Volterra

Knowledge of networks, security and creation of them. Java programming, Mysql, PHP, HTML
Database creation and management
Creation and management of websites including e-commerce

01/09/2016 – 15/11/2019 Venice, Italy
DOCTOR IN COMPUTER SCIENCE Ca' Foscari

Study of computer science, creation of networks, calculators, human machine interaction. Development of problem solving skills.

16/09/2019 – 16/07/2021 Mestre, Italy
MASTER'S DOCTOR IN CYBER SECURITY Ca' Foscari University

Relevant graded modules:

• ADVANCED ALGORITHMS AND PROGRAMMING METHODS - 30L
• SECURITY - 30
• HUMAN COMPUTER INTERACTION AND INFORMATION
VISUALIZATION - 30L
• SOFTWARE CORRECTNESS, SECURITY, AND RELIABILITY - 30L
• CRYPTOGRAPHY - 30L

• SOFTWARE PERFORMANCE AND SCALABILITY - 30L

Field of study Cyber   security**Final vote**110L

● LANGUAGE SKILLS

Native language:**ITALIAN**

Other languages:

	COMPREHENSION		ORAL EXPRESSION		WRITING
	I listen	Reading	Oral production	Oral interaction	
ENGLISH	B2	B2	B2	B2	B2
FRENCH	A1	A1	A1	A1	A1
CZECH	A2	A2	A1	A1	A2

Levels: A1 and A2: Elementary level B1 and B2: Intermediate level C1 and C2: Advanced level

● FURTHER INFORMATION

ORGANIZATIONAL SKILLS

Organizational skills
1.**Time management:**
    • Accurately plan daily and weekly activities to maximize efficiency.
    • Meeting deadlines through effective time management.
2.**Project Management:**
    • Coordination of complex projects, including the definition of clear objectives and the division into milestones.
    • Constantly monitoring progress and adapting strategies to ensure goals are achieved.
3.**Organization of Work Spaces:**
    • Design and maintenance of functional and tidy workspaces to maximize productivity.

    • Implementation of effective filing systems for easy access to documents and resources.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills
1.**Empathic Facilitation:**
    • Consolidated experience in leading mindfulness sessions, demonstrating empathy and attention to the individual needs of participants.
    • Creating an inclusive environment that fosters open sharing and emotional connection during mindfulness practices.
2.**Conscious Listening:**
    • Regular practice of active and respectful listening, encouraging an environment of learning and sharing.
    • Empathic and compassionate response to personal challenges during interactions with students and mindfulness session participants.
3.**Communicative Adaptability:**
    • Ability to adapt language and communication techniques to meet the needs of different age groups and backgrounds.
    • Clear and accessible communication of mindfulness concepts even to those who are new to this approach.
4.**Effective Collaboration:**
    • Positive and proactive collaboration with colleagues, teachers, and professionals from different disciplines to integrate mindfulness practices into educational and business contexts.
    • Active participation in collaborative initiatives to promote emotional well-being and mindfulness.
5.**Engaging Presentations:**

- Skill in preparing and delivering engaging presentations on topics related to mindfulness and mental wellbeing.
- Ability to convey the benefits of mindfulness in a clear and motivating way through verbal and non-verbal communication.

PROFESSIONAL SKILLS

Professional skills

1. **IT Security:**
    - In-depth knowledge of IT security methodologies and techniques acquired during the degree course and deepened during the master's and doctoral courses.
    - Hands-on experience evaluating and implementing advanced cybersecurity solutions.

2. **Advanced Programming:**
    - Advanced skills in the design and implementation of complex algorithms and programming methods acquired during the master's degree, with particular emphasis on the "Advanced Algorithms and Programming Methods" and "Software Performance and Scalability" modules.

3. **Encryption:**
    - In-depth knowledge of cryptographic principles and their applications, developed during the master's degree and further deepened during the doctorate.

4. **Human-Computer Interaction and Information Visualization:**
    - Advanced skills in human-computer interaction and information visualization, acquired through the dedicated module during the master's degree.

5. **Software Correctness, Security and Reliability:**
    - In-depth knowledge of the concepts of software correctness, security and reliability, developed during the master's degree and further deepened in the doctorate.

6. **Software Performance and Scalability:**
    - Practical skills in evaluating and optimizing software performance, with particular reference to the "Software Performance and Scalability" module.

7. **Academic Research:**
    - Active commitment to academic research in the field of computer security and software reliability, demonstrated by the doctoral course currently underway at the Ca' Foscari University of Venice.

8. **Technology Training:**
    - Solid technological training in the field of information technologies, with a bachelor's and master's degree in Information Technologies and specialization in Cyber   Security and Reliability.

HONORS AND RECOGNITIONS

05/22/2022
120 top women in tech – Brussels Recognized as one of the 120 most talented women in STEM degrees.

Recognition in Brussels with participation in a day of summit and an interview with a company.

PUBLICATIONS

The Revenge of Password Crackers: Automated Training of Password Cracking Tools - Alessia Michela Di Campi, Riccardo Focardi, Flaminia L. Luccio
– 2022
Passwords are stored in the form of salted one-way hashes so that attacks on servers cannot leak them in the clear. However, humans tend to select passwords that are easy to remember, and a motivated attacker may attempt to hash quite large sets of easy passwords until a match is found with the target hash. Password cracking tools such as hashcat and john the ripper do this job very efficiently, using different forms of attacks that, for example, try passwords with a certain syntactic structure or passwords taken from a dictionary and mangled through appropriate rules. Recent work on password guessing has shown that machine learning can, in principle, outperform existing cracking tools in terms of success rate, by generating sophisticated password models. In this paper, we give password cracking tools a second chance, by exploring automated training techniques that aim to effectively improve the success rate. To achieve this ambitious goal, we carry out a systematic and in-depth analysis of various cracking strategies, and we propose a new combination of techniques that we train and test on a dataset of more than 700M real passwords. Our results show that, with this new approach, we can almost double the success rate, returning the primacy to password cracking tools. The techniques are general, repeatable and publicly available up to ethical constraints, providing a new benchmark for future research on password guessing.

European and Symposium on Research in Computer Security (ESORICS) 2022

[Accessible Applications to Improve the Tourist Experience](#) –2023

Traveling is known to improve a person's well-being and happiness, and tourism experiences should be offered to all types of tourists, including those with different disabilities. At the same time, technology is evolving and tourism applications are spreading. In this paper, we focus our attention on accessible mobile applications that can support a tourism experience. We first reviewed and classified a wide range of applications dedicated to users with visual, hearing, motor, cognitive impairments, and also others dedicated to the elderly. We have included this last category of users as they represent an interesting but at the same time specific target for the tourism industry. To understand how these dedicated apps could be better designed to improve accessibility we then ran a study collecting empirical data through questionnaires proposed to 210 users with diverse cognitive abilities, and to 50 elderly users, respectively. We have investigated and analyzed their approach to using tourist apps, also trying to understand the challenges they most commonly encounter when using them, and discussing possible improvements

Conference: International Conference on Computer-Human Interaction Research and Applications

CERTIFICATIONS

Mindfulness Educator

At Mindfulness Educators R - Mediacom is an IPHM (International Practitioners of Holistic Medicine) accredited and certified training provider, a CPD Continuing Professional Development Provider and an IMMA - International Mindfulness and Meditation Alliance accredited training provider.

As a Mindfulness Educator, my mission is to guide individuals in the practice of mindfulness, providing them with practical tools to manage stress, improve concentration, and cultivate greater emotional awareness. Through workshops, educational sessions and customized programs, I am committed to creating an environment that fosters personal growth and well-being.
My experience is based on the design and delivery of training programs, the facilitation of guided meditation sessions and individualized counseling. I have also worked in collaboration with institutions and companies to integrate mindfulness practices into their cultures, helping to create more balanced and wellbeing-oriented environments.
Additionally, I have developed skills in understanding individual needs and adapting mindfulness practices to fit a variety of contexts. My goal is to inspire and guide others on their journey to living a more mindful, present-centered life.
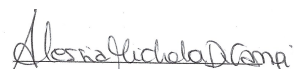
PROJECTS

OWASP - Web Application Security Testing One of the authors for owasp for the Web Application Security Testing section

Linkshttps://owasp.org/www-project-web-security-testing-guide/stable/1-Frontispiece/

Alessia Michela Di Campi

Venice, 18/01/2024