ick Fabbiani

via A. Scarsellini, 7, Marghera, Venice, 30175, Italy

□ (+39) 348 44 58 721 | Spatrick1fabbiani@qmail.com | Apatrick2734.qithub.io | Opatrick2734 | Opatrick2fabbiani-495615128



24/07/2022

Venice - Italy Nov. 2020 - Feb. 2021

Summary

Innovative Computer Scientist with expertise in cybersecurity, data protection, and risk management. Skilled in identifying and mitigating security threats, with experience in encryption, firewalls, IDS, and vulnerability assessments. Proven ability to develop robust security systems and solutions to safeguard organizational assets.

Driving License: Category AM, B

Health

Covid-19 Venice - Italy

SARS-CoV-2 ACUTE RESPIRATORY DISEASE

Experienced mild symptoms such as fever, fatigue, and shortness of breath, but recovered after following prescribed treatment. The condition was managed under medical supervision with good progress.

Incident Romallo, Trento - Italy 60% OF INVALIDITY

Following a mountain accident that caused me to go into a coma, I developed deep personal resilience, adaptability, and determination. This experience taught me how to manage complex situations, face challenges with strength of character, and maintain a positive attitude in the face of difficulties.

Diabetes Trento / Venice - Italy Type 1 diabetes - Insulin Dependent Dec. 2008

Diagnosed with Type 1 Diabetes at the age of X, requiring daily insulin administration to manage blood glucose levels. Ongoing monitoring and treatment to maintain healthy glucose levels and prevent complications. Regular visits to endocrinologist and diabetes care team.

Work Experience _____

Ca' Foscari University Venice - Italy Jun 2024 - Dec 2024

Analyzed and tested the LiSA (Library for Static Analysis) plugin for taint analysis, identifying vulnerabilities and tracking data flow.

Collaborated with development to improve taint tracking accuracy in database queries.

Applied static analysis to assess security risks and prevent data leaks.

Provided recommendations for enhancing data sanitization and security protocols.

Documented findings and contributed to security reports to enhance database integrity.

Metropolitan City of Venice, IT Sector

Created thematic tables for the General Territorial Plan (PTG) to support urban planning.

Mapped bike-sharing station locations and secondary schools in Venice using GIS tools.

Managed and organized geospatial data for accuracy and consistency in territorial development.

Collaborated with urban planners and local authorities for effective data-driven decision-making.

Delivered actionable insights through visualized maps and geospatial reports

• Used QGIS to map 30+ bike-sharing stations, improving urban planning efficiency.

Personal study ______

Unity Test Project Personal Project SELF-PACED LEARNING

Developed a simple game using Unity to understand core components of the engine. Key learnings included:

Implemented UI components such as buttons and input fields.

Managed scene transitions between game states.

Gained hands-on experience in C# scripting for game logic and user input.

Stored and retrieved data using local JSON files and/or in-memory data structures.

Acquired foundational knowledge of Unity's component-based architecture and editor environment.

Developed a simple 3D game using Unity to explore physics interactions and input handling. Key learnings included:

- Created a 3D game environment featuring a sphere as the main object.
- Implemented keyboard input (Space key) to trigger actions in the game.
 Applied Unity's Rigidbody component to simulate realistic bounce behavior.
- Utilized Unity's physics engine to manage motion and collisions.
- Strengthened understanding of input events, physics-based interactions, and object manipulation.

Unity learn SELF-PACED LEARNING

Learned the basic concepts of Unity from the sites

- https://learn.unity.com/pathway/unity-essentials
- https://learn.unity.com/course/tanks-make-a-battle-game-for-web-and-mobile/

I saw examples of the use of Unity from the Github repository

https://github.com/zfergus/unity-examples/tree/master

Personal

Unreal Engine learn

Personal

Self-paced Learning 2025

Learned the basic concepts of Unreal Engine from the site

https://dev.epicgames.com/documentation/en-us/unreal-engine/understanding-the-basics-of-unreal-engine

Generative AI
Self-paced Learning
2025

Proficient in leveraging generative AI tools such as ChatGPT and Qwen to support and accelerate application and software development. Skilled in utilizing AI models to assist with coding, debugging, documentation, and idea generation. Able to integrate AI-driven suggestions into various programming workflows to improve efficiency, streamline problem-solving, and enhance the overall quality of development projects. Experienced in using generative AI to prototype features, write technical content, and optimize code across multiple programming languages and frameworks.

Projects.

Accademic thesis ______

Master thesis, LiSA taint analyzer (Dataset)

Ca' Foscari University - MSc

Jul. 2024 - May. 2025

THESIS AUTHOR

Make a study on the taint analysis on dataset.

This study is based on LiSA analyzer (a library for static analysis developed at Ca' Foscari) and the goal is to improve program security, data integrity, data confidentiality,...

Conducted research on adapting taint analysis to track data flow and ensure integrity in datasets, proposing scalable "taint mark-

conducted research on adapting faint analysis to track data flow and ensure integrity in datasets, proposing scalable "faint markers" for real-time detection of unauthorized modifications. Demonstrated feasibility and value of the framework in enhancing data security for sensitive sectors like finance, healthcare, and government.

Bachelor thesis - General Territorial Plan (PTG)

Ca' Foscari University - BS

Nov. 2020 - Feb. 2021

THESIS AUTHOR

Collaboration with the agency for the creation of thematic maps for the General Territorial Plan (PTG).

High school thesis

High school thesis, Traffic Light Intersection Simulation Project

ITIS C. Zuccante

Mar. 2017 - Jun. 2017

Designed and implemented a simulation of a four-way traffic light intersection using PLC, RTU, and SCADA technologies. The system included both vehicular and pedestrian signal management with day/night modes and manual pedestrian request functionality. Developed hardware and software prototypes using Siemens LOGO, SCADA IdroNetwork, and RTU ISET-IS35. Implemented data logging, alarm visualization, and user interaction via graphical interfaces. Conducted alpha and beta testing to ensure system stability and functionality in realistic scenarios.

Personal projects

Code Editor UI for HTML, JavaScript, Python and Java (HTML + Flask)

Personal

Developed an interactive, user-friendly code editor UI designed for real-time coding, syntax highlighting, and file management. The editor supports multiple programming languages, with features including code auto-completion, line numbering, error highlighting, and a customizable theme. Integrated various tools like search functionality, undo/redo, and a built-in terminal for seamless coding workflow. Utilized advanced JavaScript and React to ensure responsive design and optimal performance.

Memory Game (HTML + JS)

Personal

2025

DEVELOPER

DEVELOPER

DEVELOPER

The Memory Game project is a fun and interactive browser-based game that challenges users to match pairs of hidden cards. The game consists of a grid of face-down cards, each with a unique icon or image. Players flip two cards at a time, trying to find matching pairs. The objective is to match all pairs with the fewest attempts possible. The game keeps track of the number of attempts and the number of successful matches. It features a simple and intuitive design, offering a playful and engaging experience. This project helps improve memory and concentration while providing a fun challenge.

Expense Management (HTML + Flask)

Personal 2025

The Expense Management Project is a web-based application designed to help users track and manage their financial transactions effectively. This project aims to promote better financial planning and decision-making.

To-Do List (HTML + Flask)

Personal 2025

DEVELOPER

The To-Do List project is a simple yet effective task management application that allows users to create, update, and delete tasks in an organized manner. It is designed with a clean, user-friendly interface and responsive layout, making it easy to use on any device. The To-Do List project aims to enhance productivity by offering an efficient way to manage daily tasks and stay organized.

Diabetic Values Tracker (HTML + Flask)

Personal

DEVELOPER

I developed a web application to track diabetic values, with features to calculate the mean of the values, the estimated HbA1c, and an overall rating of the trend, categorized as Optimal, Good, Fair, or Poor. As a diabetic, I found it interesting to create an application that allows me to visualize the progression of measurements and gain a clear and immediate understanding of the data.

Arduino projects

Personal 2025

DEVELOPER

I developed several projects with the use if the Arduino UNO like the simulation of a semaphore with a single led RGB, a simple calculator using the keypad.

Personal

Simulation Social Network (HTML + Flask)

2024-2025

I developed a simulation of a social network similar to Facebook, focusing on core features like user profiles, posts and messages (also with emoticons). The project included a Python-built backend. I implemented key functionalities such as user authentication, real-time updates, and a responsive design for the desktop. This project improved my understanding of full-stack development and database

management, while also improving my problem-solving and debugging skills.

Python projects Personal

DEVELOPER

I developed several projects in Python such as a calculator, a cryptographic converter using different ciphers, a password generator, an indentator of the code of several languages (such as Python, Java, C++, Scala, Javascript, Ruby). I implemented also a simulation of several games such as minesweaper, sudoku, and hangman game. I build a script to play chess in 2 player and implement the possibility to play versus the computer, simulated by artificial intelligence.

Education Ca' Foscari University Venice, Italy

MSc in Computer Science - Cybersecurity

Specializing in cybersecurity, with a focus on network security, cryptography, and risk management. Courses include Advanced Network Security, Cryptography, Cyber Threats and Vulnerabilities, and Ethical Hacking.

Currently conducting research on emerging cybersecurity threats and solutions.

Ca' Foscari University

BS IN COMPUTER SCIENCE - DATA SCIENCE

Focused on data analysis, machine learning, and statistical modeling.

ITIS C. Zuccante

HIGH SCHOOL DIPLOMA IN COMPUTER SCIENCE

Graduated with a focus on programming, hardware, and software development, gaining proficiency in Java, C and C++.

Venice, Italy

Sep. 2022 - Curr.

Sep. 2017 - Jun. 2022

Venice, Italy

Sep. 2012 - Jun. 2017

Skills.

Graphic Design Adobe Photoshop Web Development

Programming Languages

Experienced in front-end web development using HTML and CSS, building responsive and user-friendly websites. Knowledgeable in optimizing web pages for performance and accessibility. Advanced proficiency in Java, C, C++, Python, Scala, and F-Sharp. Proven ability to develop efficient

algorithms, work with object-oriented programming, and implement complex systems. Microprocessors

Hands-on experience with Arduino UNO for prototyping and developing embedded systems, creating real-time data collection and control applications.

Experienced with PostgreSQL and MySQL, including database design, query optimization, and **Database Management** managing relational databases for various applications.

Skilled in using R and Python (Pandas, Numpy) for data analysis, statistical modeling, and data **Data Analysis** visualization. Familiar with Tsung for performance testing and distributed systems analysis.

Soft Skills Strong team collaboration and leadership skills, with a focus on problem-solving, public speaking, adaptability, and fostering effective communication in cross-functional teams.

Organization Proficient in project and time management, with a track record of successfully leading teams, delivering projects on time, and managing multiple tasks in fast-paced environments.

Languages Fluent in English and Spanish, with a strong interest in learning German to expand communication skills and improve cultural understanding.

CISCO CCNA Routing and Switching (Introduction to Networks) and B2 English certification, Certifications demonstrating a solid foundation in networking and advanced language proficiency.

Organizational and Managerial Skills Proven ability to organize, manage, and delegate tasks in group projects, ensuring efficient workflow, meeting deadlines, and fostering a collaborative environment.

Interests and Hobbies

I have a variety of interests and hobbies that keep me active and curious. I've been playing tennis for over 15 years, an experience that has taught me resilience, focus, and the value of consistent practice. I also enjoy skiing and admire the determination and strategy displayed by cyclists during challenging stages. These sports instill discipline and a drive to overcome challenges.

I'm passionate about traveling, as it allows me to explore diverse cultures, connect with people from different backgrounds, and gain fresh perspectives. My enthusiasm for technology fuels my curiosity, I love staying updated on emerging trends and innovations, which inspire me with their potential to shape the future.

Last, but not least, I have a growing appreciation for the art of chess, and I find that exploring its complexities helps me think more clearly and creatively. Just as chess is an intricate game of strategy and foresight, it encourages me to approach problems with a more adaptive and thoughtful mindset. Whether I'm analyzing new openings or learning about famous historical games, chess helps me refine my ability to tackle challenges from multiple angles. These activities not only enrich my personal life but also strengthen my ability to adapt and think creatively.