

Joseph Fortunato

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EDUCATION:

Marist University, Poughkeepsie, NY

August 2022 - May 2026

- Bachelor of Science, Computer Science
- Concentration: Software Development
- Minor: Cybersecurity

Marist University Scholarship

- Academic Award Recipient

August 2022 - Present

Lorenzo de' Medici Institute, Florence, Italy

August 2024 - December 2024

- Study Abroad

RELEVANT COURSE WORK:

Python

Systems Design

Algorithms: Analysis and Design

Data Communications and Networks

Internetworking

Discrete Mathematics

Cybersecurity

Computer Organization & Architecture

PROJECTS:

Software Development I / II

Fall 2023-Spring 2023

- Developed a Java-based voting simulation as a semester-long project, displaying programming and critical thinking skills.
- Learned and applied OOP principles, including encapsulation, inheritance, and polymorphism.
- Led a team of four to design and implement a restaurant website with multiple pages.
- Integrated and ensured the functionality of all code, resulting in a seamless user experience.

Database Management

Fall 2023

- Collaborated with a partner to develop a robust Contact Management System (CMS) as a semester-long project.
- Designed and implemented a SQL database to manage user data, events, interactions, and tasks with an Enhanced Entity-Relationship (EER) model.
- Developed a Python GUI connected to the SQL database, enabling a user-friendly interface for both end-users and administrators.
- Implemented key security features such as access control, username/password protection, and data validation to enhance system reliability using SQL.

Algorithms Analysis and Design

Spring 2024

- Developed solutions for classic computer science problems by applying tree, graph, and hash table data structures.
- Strengthened problem-solving and analytical skills by implementing and optimizing core algorithms, including searching, sorting, and graph traversal.
- Gained hands-on experience with advanced algorithmic concepts such as divide and conquer, dynamic programming, and greedy algorithms through Java-based programming assignments.

SKILLS

Java, Python, Typescript, HTML, CSS, Agile, Wireshark, IntelliJ IDEA, Cisco Packet Tracer, Visual Studio Code, GitHub, MySQL Workbench, Anaconda (JupyterLab), Outlook, Word, PowerPoint, Python GUI, UX/UI Design, John The Ripper