Alessio **Celentano**

SOFTWARE ENGINEER

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Education

Erasmus+ Exchange Program, University of Murcia   *Murcia, Spain*

B.S. IN COMPUTER ENGINEERING   *Sep. 2024 - Feb. 2025*

- Relevant Coursework: Software Engineering, Web Technologies, Functional Programming

University of Ferrara   *Ferrara, Italy*

B.S. IN COMPUTER SCIENCE   *Sep. 2022 - Present*

- Overall GPA: 27.50/30.00 (3.75/4.00)
- Relevant Coursework: Algorithms and Data Structures, Databases, Operative Systems, Programming, Computer Architecture

Projects

Tetrix

PERSONAL PROJECT

- Designed and built a fully functional Tetris clone using Arduino Uno and a Nintendo Wii Nunchunk; the project is now part of an educational workshop, helping introduce 20+ students annually to coding concepts.
- Optimized Arduino memory utilization by leveraging advanced bit manipulation techniques and other memory manipulation strategies within a limited 2KB SRAM environment.
- Created a project presentation on Reddit which reached 1500+ Upvotes, 100,000+ Views and attracted over 50 comments, creating valuable discussions about coding.

Rotogram

PERSONAL PROJECT

- Launched a user-friendly Telegram Bot that aggregates Pokemon data, achieving 100+ daily interactions in the first month post-launch.
- Leveraged analytics to adjust features, ensuring ongoing relevance and engagement with the Pokemon community.
- Made use of Amazon Web Services (AWS) EC2 to manage user requests 24/7.

MMC Queue System Simulator

COLLEGE PROJECT

- Led a team of 3 students in building a simulator of a MMC queue system populated by users with random arrival times, achieving response execution in less than 1 second.
- Devised a systematic approach to data storage that enabled the generation of precise visual reports on metrics for over 1,000 users.
- Presented the project as part of the Telecommunications Networks exam, achieving a grade of 30 with honors (4.0 GPA with honors).

Museum Database

COLLEGE PROJECT

- Teamed up with a student to develop a website that interfaces with a database to fetch data about a museum; the project was crucial in obtaining a grade of 28/30 (4.0 GPA).
- Analyzed and cleaned approximately 50,000 raw entries from a CSV file (99% of the total) to populate the database.

Extracurricular Activities

2020	**Attendee,** Reply Code Challenge
2021	**Finalist,** Italian Olympiads of Informatics
2024	**Attendee,** ItaCPC

Skills

Programming Languages	C, C++, Python, Java, JavaScript, Haskell, Matlab, MySQL, LaTeX
Technical Skills	Algorithms and Data Structures, Relational Databases, Object-Oriented Programming, Microcontrollers, GNU/Linux Command Line Interface (CLI), Test-Driven Development, Git, GitHub, RegEx
Languages	Italian (Fluent), English (Advanced), Spanish (Beginner)