FABIO PIRAS

COMPUTER EGINEER – albran99.github.io

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- 📅 24.05.1999

PROFILE

Computer engineer student in University of Pisa. During my academic journey I acquired a solid knowledge base in different areas of computer engineering such as: algorithms, artificial intelligence, cybersecurity, software development. I am a creative, motivated and diligent person who loves to work in a team to reach common results. I love having a positive impact on the community.

EDUCATION

2022-on going
Master's Degree – Computer engineering, Cybersecurity curriculum
University of Pisa – school of engineering

2018-2022
Bachelor's Degree – Computer enginnering
University of Pisa – school of engineering

LANGUAGES, KNOWLEDGE & SOFT SKILLS

- Italian (Mother tongue)
- English (Proficient - B2 certification)
- C/C++ - Java – Python
- MySQL – MongoDB – Neo4j
- Tenserflow - Keras
- Native Linux & WSL
- OpenSSL – ethical hacking
- Hardware knowledge at high and low level
- Math, physics and coding skills at university level
- Project design & implementation
- Creative problem-solving
- Teamwork
- Effective communication
- Adaptability
- Critical thinking

INTERESTS

- Cybersecurity
- CTF
- Olympic and historical fencing

EXPERIENCE AND PROJECT

Design and development of a secure bank application in C++
June – July 2023 Pisa

Creation and design of a secure protocol for a simple bank application with C++ & OpenSSL. The application use both asymmetric and symmetric key protocols.

Implementation of a messaging app in C
May – June 2022 - Pisa

Creation of a messaging app with the use of C socket, handling of group chat and file sharing.

Development of an AI for blood sugar forecasting in type 1 diabetic patients
June – September 2022 - Pisa

Experiment on a CNN to generate forecasting prediction of blood sugar level based upon measurement done by Freestyle libre sensors.

Design, development and implementation of a site for reviewing movies
December 2022- January 2023 - Pisa

Development of a site where register users can read/write reviews and follow each other's. Particular attention given to the handling of the backend with MongoDB and Neo4j.

Implementation and analysis of a pandemic evolution model
January – February - 2023

Development and analysis with Omnet++ of a pandemic evolution model. Following development analysis and case study of the results.