Matteo Giorgi

Curriculum Vitae

- GITHUB github.com/matteogiorgi
- LINKEDIN linkedin.com/matteogiorgi
- WEBSITE geoteo.net

Education

- [2024] MSc in Computational Finance, University of Padua (ongoing)
- [2023] BSc in Computer Science, University of Pisa, summa cum laude (110L/110)
- [2011] BEng in Mechanical Engineering, University of Pisa (incomplete)

Programming & Software

- LANGUAGES C/C++, Java, Python, JavaScript, Go, Scheme, Ocaml, Haskell, Bash, AWK
- ullet UNIX GNU/Linux and FreeBSD system menagement, C system programming and good knowledge of POSIX standard
- TOOLS Experience with various software such as Vim, Emacs, Git, LATEX, Matlab and Wolfram Mathematica
- \bullet EXTRA Knowledge of $SQL,\,HTML$ and CSS

Relevant Experience

- TOODY Python web application for the detection of variability indicators in requirement documents of software systems, written for my BSc thesis. The application uses Spacy for NLP analysis and Flask for the web interface.
- LAB ASSISTANT Worked, in support of Professor Pelagatti, as lab assistant for the C laboratory exam at BSc in Physics at the *University of Pisa*. The main task was to help students during the exercise sessions and to correct their assignments.
- CNR PROJECT Worked, together with a colleague of mine, as a *Python* programmer inside the *CNR* offices in Pisa, helping in the realisation of a scale model for blind people. The project was under the supervision of Doctor Furfari from *CNR* and Professor Pelagatti from the *University of Pisa*.
- PDE[BASE/PLUG/TILE] Public repositories containing a collection of configuration files and installation scripts for a complete and efficient *UNIX* work environment based on any *Debian* distribution.
- ASTEROIDS Javascript implementation of the popular game Asteroids. The game is written using p5.js library and is particularly useful to understand the basics Event Programming.
- RSA REPORT Independent studies, under the supervision of Professor Romani from the *University of Pisa*, regarding the attacks that exploit the *RSA* cryptosystem vulnerabilities with a specific focus on the *Wiener Attack* and its use of *Continued Fractions* for the factorization of the *RSA* module.
- HACKATHON First place in the 2021 edition of ContHackt, organized by the University of Pisa and
 Contamination Lab Pisa. As winner, our team had access to the 2021/2022 EUAcceL project organized by
 the European Institute of Innovation and Technology and won the final stage with a blockchain prototype
 for the tracking of food products.

Languages

- ENGLISH Advanced use in speaking and writing, Cambridge C1 Advanced (IELTS 7.0) certification
- FRENCH Basic understanding in speaking and writing, $DELF\ A2$ certification
- ITALIAN Mother tongue

Areas of Interest

- Being a student of Computational Finance, I am particularly interested in Numerical Approximation and Optimization, in particular Stochastic Optimization and its applications in the field of Portfolio Management.
- I am very keen on programming languages and I often find myself playing with a new language trying to improve my skills; this has made me focused on *Functional Programming*, experimenting with languages such as *Ocaml* and *Haskell*.
- Cryptanalysis is another field that I find fascinating. I spent some time studing Lattice Theory and its implications regarding Elliptic Curve and Post Quantum Cryptography.

Competitive Sports

- I have more than ten years of sailing activity at both national and international level in *Optimist*, 420 and 470 classes, most of which among the ranks of the Junior National Team. I competed in several prestigious regattas, above all *Kiel Week* and *Barcolana* as the two largest sailing events in the world.
 - NATIONAL Ranked first once and qualified among the first ten Italian Juniors other four times.
 Among others, winner of a Young Barcolana, a Mediterranean Cup and one Trofeo Accademia Navale Juniores.
 - INTERNATIONAL Competed, as a member of the Italian National Team, in one World Championship (Qingdao China), three European Championships (Tavira Portugal, Dublin Ireland, Riva dal Garda Italy) and classified vice-champion in one European Team Championship (Berlin Germany).
- As a side activity, I have practiced running at a discrete level, participating in several 10km and half-marathons. I have also took part in a few long-distance races, such as the Etna Marathon at over 3000m above sea level.

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