

Marco Gasparri

Curriculum Vitae

Rescaldina (MI), Italy
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Professional experiences

Oct 2015 – **Software and Algorithm Engineer, Backend Engineer, WORKWAVE (FORMER VIAMENTE)**, Verona.

I design, implement, evaluate, improve and document high-performance, sequential and parallel algorithms for optimization, simulation and statistics in C/C++, working as member of the engineering team. Specifically, I design, develop and optimize algorithms for logistics, vehicle routing (VRP), and clustering.

Since November 2016, as backend engineer, my job is related to design, analysis and development of different server-side (Java, Groovy, Kotlin) features about all aspects of a backed system: API interfaces (websocket, REST), concurrency management, multi threading, monitoring, sharding, data management, computational distribution, architectural design, performances and technologies analysis.

Aug 2013 – **Freelancer IT**, MAGISTER SISTEMA CAFFÈ SRL, WE ARE SOCIAL SRL, ERRECI SRL, CENTRO MEDICO POLIFUNZIONALE LEGNANO UNO, Milan area.

Development of websites and/or development of small web applications, penetration testing

Sep 2012 – **IT Director & Web Developer**, *blog Seriangolo.it*.

- Jan 2018 ○ Developer of web applications for original Seriangolo projects (webgames, improvement of blog platform based on WordPress), using PHP, JavaScript and PostgreSQL.
- IT Director for the development and the management of the webgames "Fanta Game of Thrones" (based on "Game of Thrones", 25.000 users in 2016 edition) and "The Walking Game" (based on "The Walking Dead", 5.000 users in the 2015/2016 edition).

Oct 2012 – **Associate in research project**, UNIVERSITÀ DEGLI STUDI DI MILANO (COMPUTER SCIENCE DEPARTMENT, AGRICULTURAL ENGINEERING DEPARTMENT), Milan.

Focus of the work was the formulation and the implementation of a mathematical model useful for building an infrastructure able to disperse waste water and effluents coming from animal husbandries in a large area. The first part of the work (corresponding to my Bachelor's thesis) consisted in the design of the model and its implementation using the environment IBM ILOG Optimization Studio, with CPLEX solver. But the exponential dimensions growth did not make this solution useful for a large area utilization, so we decided to restart with a new approach, designing and implementing a new optimization heuristic algorithm in C language, simultaneously with a simulation of the infrastructure treatments. The final algorithm became the subject of my Master's thesis.

Certifications

2013 TOEFL iBT 89/120

2018 eLearnSecurity Certified Professional Penetration Tester (license: G-5556450)

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Education

- 2017–2018 **Penetration Testing Professional course**, *eLearnSecurity*, v4.
- 2013–2015 **MSc in Computer Science**, *Università degli Studi di Milano*, Milan, 110/110 cum laude, specialization in *algorithms, analytics and optimization*.
- 2009–2012 **BSc in Computer Science**, *Università degli Studi di Milano*, Milan.
- 2008–2009 **Attended first year courses of BSc in Medical Biotechnologies**, *Università degli Studi di Milano*, Milano.
- 2003–2008 **Scientific Lyceum Diploma**, *Liceo Scientifico "G. Galilei"*, Legnano (MI).

Other Experiences

- 2003–2013 **Educator**, *Parish youth club "Don Bosco"*, Rescaldina (MI).
- Teenagers educator.
 - Collaborator and supervisor in the organization of activities for children and teenagers.
 - Collaborator and supervisor in the organization of camping experiences.
- 2008–2015 **Video and lights technician**, *Theater company "Compagnia della Torre"*, Rescaldina (MI).

Skills

- Basic skills **JAVASCRIPT, PHP, PYTHON, POSTGRESQL**
- Intermediate skills **MYSQL, APPLICATION ARCHITECTURE DESIGN, PENETRATION TESTING, C++, KOTLIN**
- Advanced skills **C, OPTIMIZATION ALGORITHMS, ALGORITHMS DESIGN, CODE OPTIMIZATION, JAVA, GROOVY**

Publications

"Sostenibilità ambientale ed economica: la gestione degli effluenti negli allevamenti di suini" (Environmental and economical sustainability: effluents management in swine breeding farms)

edited by P. Bonfanti e G. Provolo

I worked on the editing of the chapter "Sviluppo di un Decision Support System per la valutazione tecnica ed economica delle soluzioni territoriali per la gestione degli effluenti da allevamento" (Developing of a Decision Support System for the technical and economical estimate of territorial solutions in order to manage breeding farm effluents) in collaboration with prof. Giorgio Provolo, prof. Guido Sali and Giorgio Galassi, all from the University of Milan.

Language competences

- Italian **Mother tongue**
- English **Professional / Advanced**

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