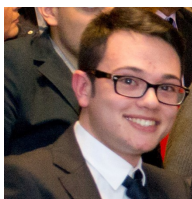



Personal information



Francesco Farina

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Gender Male | Date of birth 17/10/1991 | Nationality Italian

EDUCATION AND TRAINING

12/2013 - 09/2016

Master's Degree in Computer Science

EQF Level 7

University of Salerno - Department of Computer Science

Specialization in computer networks, parallel and concurrent computing, grid and cloud computing, distributed systems, data analysis, data integration, computational and artificial intelligence, security and cryptography, compilers, virtualization, advanced algorithms, social networks structure and robotics.

Graduation Mark: 110/110 cum Laude

Thesis Title: "A more efficient implementation of the subgraphs-world for the Glauber Dynamics in the Ising Model", supervisor: Prof. V. Auletta

09/2010 – 12/2013

Bachelor's Degree in Computer Science

EQF Level 6

University of Salerno - Department of Computer Science

Programming languages, operating systems, algorithms, data structures, computer networks, software engineering, parallel and distributed programming, web development and database design.

Graduation Mark: 110/110 cum Laude

Thesis Title: "Aided-Design of agent-based simulations: the architecture of Agent Modeling Platform", supervisor: Prof. V. Scarano

PERSONAL SKILLS

Mother tongue

Italian

Other language

English

| Understanding | | Speaking | | Writing |
|---------------|---------|--------------------|-------------------|---------|
| Listening | Reading | Spoken interaction | Spoken production | |
| C1 | C1 | B2 | B2 | C1 |

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference (CEF) level

Communication skills

I have good communication skills gained by participating in team made up by many people, during my University career.

Organisational / Managerial skills

I worked in team made of 2 up to 8 people for academical projects, holding managerial position. I have good job scheduling and problem solving competence, even when time is a critical factor.

Professional skills

Thanks to the experience acquired in the last years, I have great problem solving skills, from a computer science related point of view. I can quickly analyze problems and pinpoint the methodologies needed for solving them, in order to provide the best feasible solution in the given schedule. I am a fast learner, therefore I can quickly learn new technologies and methodologies.

| | |
|------------------|--|
| Technical skills | Advanced knowledge of Microsoft Windows, macOS and Unix-Based operating systems. Great knowledge of Java and Python, good knowledge of C, Javascript, PHP, HTML, CSS, XML, JSON, BASH Scripting, LATEX, Matlab, Prolog, XPath e XQuery. Advanced knowledge of Java SE platform and Eclipse IDE. Good knowledge of the following libraries/frameworks: C Standard Lib, OpenMPI, Apache Hadoop, Java RMI, Java Swing, jQuery, AngularJS, Twitter Bootstrap, Express.js, Apache Axis2, Java FLEX/CUP, Numpy, Pandas, Scikit-learn, NetworkX, Matplotlib. Good knowledge of Assembly MIPS and x86-64. Competences of relational database MySQL, SQL and NoSQL database eXist. Basic knowledge of Prolog, Nvidia CUDA, Haskell and Continuous Integration. Advanced knowledge of Git version control. Basic knowledge of penetration testing methodologies and tools. |
| Other skills | <p>My passion for music brought me to explore the music scene searching for new sounds to listen to with Hi-Fi equipment in order to get the best audio experience. I can play acoustic and electric guitar at a basic level. I have a basic knowledge of Native Instruments Massive and Ableton Live 9 Suite. Basic knowledge of Photoshop and GIMP.</p> <p>During my secondary school I obtained two english language certification: Trinity ISE 1 (B1 level in CEFR) and Trinity Grade 7 (B2 level in CEFR).</p> |

ADDITIONAL INFORMATION

Main Academic Projects

- Master Thesis subject: computing the Gibbs measure of the subgraphs-world dynamics for the Ising model on real world big datasets.
- I developed a tool in collaboration with a colleague and a research assistant. The tool is written in Python and is able of determining the driver condition/performance, by computing the Arousal level through a driver hypo-vigilance.
- I realized for the class of "Networks security" a survey with three colleagues about Smart Grids and their security.
- For the class "Structures of the social networks", I implemented and applied centrality measures and one diffusion model to a real sample, in order to evaluate the influence of the most important nodes.
- During the class of "Robotics", together with two colleagues, I builded a vehicle controlled by gesture using as controller the Intel Galileo board and C++ as programming language.
- Along with three other colleagues for the class "Data integration on web", I developed a web application for viewing all the details related to the National Basket Association, by gathering from several websites and integrating them through Node.js, Express and Angular.js.
- During the class "Programming languages and compilers", I developed compiler for the didactic language COOL, exactly the modules for the lexical, syntactic and semantic analysis, along with several colleagues.
- I realized a scalable application, together with other five colleagues for the class "Advanced operating system", based on MapReduce paradigm and the framework Apache Hadoop2, for the sequences alignment of genomics and proteomics. Also with some of them, I configured and handled the Hadoop cluster consisting of forty computers.
- For the class "Computer networks II" together with other two colleagues, I contributed to a Firefox extention called NoTrace by developing a graphic visualization of lost information while browsing, through the libraries Sigma.js and Twitter Bootstrap.
- For my bachelor's degree thesis with another graduating colleague, I realized the integration of the library MASON in the Agent Modeling Platform, which is a visual design system for agent-based simulations with automated generation of Java code, based on Eclipse and its plug-in. The entire project is realized in Java, Xpand, Xtend, EMF and PDT.
- I developed a web application focused on the books sharing, along with two colleagues for the class "Software engineering". Such application is designed using PHP, MySQL, HTML5, CSS3 and Javascript.
- In the last year, I studied the Node.js platform and its most relevant modules. I created and published five modules on npmjs.org. The development was versioned by git, hosting the code on GitHub. The publication implied the understanding of open source various kind of licences and the Node.js modules deploy mechanism.

[Legal](#) I authorize the handling of my personal data pursuant to the Personal Data Protection Code Italian Leg. Dec. n. 196/2003.