![europass logo] Curriculum vitae

Personal information

Francesco Farina

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

EDUCATION AND TRAINING

Oct 2016 - in progress

Erasmus+ Internship
ServiceNow, UK

Knowledge of the ServiceNow product through System Administration, Scripting, Discovery, Application Creation classes and internal projects in the Training department.

Supervisor: Dr. Raffaele Manfellotto

Dec 2013 - Sept 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

Sept 2010 – Dec 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

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

English is shown in the row above.

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 partecipating 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 knlowledge 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   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.

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).

ADDITIONAL INFORMATION

ServiceNow projects

- I have worked on two applications for the training department coordinators integrating the Google Maps and Timezone API using UI Page, developing a tree-relationship structure for Location table, ACL design and lab test results data integration between students' and instructor's instances.

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 Python tool, with a colleague and a research assistant, able to output a car driver's condition, by computing the Arousal level using a hypo-vigilance driver.

- I wrote a survey for the class of "Networks security" 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-world sample, in order to evaluate the influence of the most important nodes.

- During the class of "Robotics", together with two colleagues, I built a gesture controlled vehicle using the Intel Galileo board as controller and the C++ language.

- In a three member team, for the class "Data integration on web", I developed an NBA players and teams data statistics web application, by gathering and integrating them from several websites using Node.js, Express and Angular.js.

- During the class "Programming languages and compilers", in a team, I developed the lexical, syntactic and semantic analysis modules for a compiler for the didactic language COOL.

- I developed a scalable application, in a six members team, for the class "Advanced operating system", based on MapReduce paradigm and the framework Apache Hadoop2, for the sequence alignment of genomics and proteomics. Also with some of them, I configured and maintained the forty nodes Hadoop cluster .

- For the class "Computer networks II", in a three members team, I contributed to a Firefox extension called NoTrace by developing a graphic visualization of lost information while browsing, using the libraries Sigma.js and Twitter Bootstrap.

- Bachelor Thesis subject: I integrated, with another graduating colleague, the MASON library in a visual design system for agent-based simulations called Agent Modeling Platform, with automated generation of Java code, based on Eclipse, Java, Xpand, Xtend, EMF and PDT.

- In the last year, I studied the Node.js platform and its most relevant modules. I published five modules on `http://npmjs.org`. The development was versioned by git, hosting the code on GitHub. I studied the open source licenses and learned its deploy process.