europass Curriculum vitae

PERSONAL INFORMATION

Tommaso Papini

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Skype tommy39ita

Gender Male | Date of birth 30 September 1990 | Nationality Italian

WORK EXPERIENCE

May 2018 – Present — C++ developer

Amadeus IT Services UK Limited, London (United Kingdom)

Software Development in C++ at Amadeus, one of the leading companies in the sector of Software Development in the travel business, such as airlines, travel agencies, etc.

Jan 2018 – Present — Freelancer Game Developer

Self employed

Working and making experience with several languages and tools for gamedev, in particular Unity, Unreal Engine 4, Blender, OpenGL and gamedev in HTML5/JS. The progress and my portfolio are available at `https://oddlord.github.io`.

June 2017 — Secondment

Ageing Lab Foundation & University of Jaén (Spain)

Department of Computer Science

REMIND project for the use of computational techniques to improve compliance to reminders within smart environments. Knowledge transfer between the Universities of Florence and Jaén in order to share experiences on techniques for Activity Recognition (especially based on fuzzy logic and stochastic models) and on the creation of AR datasets.

June 2016 – Oct 2016 — Research Fellow

University of Florence (Italy)

Faculty of Engineering, Department of Information Engineering

Model based quantitative analysis for non-Markovian systems

Oct 2013 – Nov 2014 — Web application developer

CERN, Route de Meyrin 385, 1217 Meyrin (Switzerland)

Web developer for the Indico Knowledge Transfer Project, a project aimed to increased the worldwide impact of Indico. Indico is a web-application for event organization

EDUCATION AND TRAINING

Nov 2016 – Dec 2017 — PhD in Smart Computing — ISCED 8

Universities of Florence, Pisa and Siena (Italy)

Faculty of Engineering, Department of Information Engineering

Thesis: Model-based quantitative analysis for on-line diagnosis, prediction, scheduling and compliance evaluation in partially observable systems

Notes: Dropped out after one year because not interested in the topic anymore, but still had an amazing experience.

Dec 2012 – Apr 2016 | **Master's degree in Computer Science** | ISCED 7

University of Florence (Italy)

Faculty of Maths, Physics and Natural Sciences

Projects
- *Rankboost*: C++ implementation of the learning-to-rank algorithm Rankboost. Included in the Quickrank tool developed at HPC Lab, ISTI, CNR
- *MRP steady-state*: Java implementation of an algorithm for steady-state probabilities computation for Markov Regenerative Processes. Included in the Oris tool developed at STLab, University of Florence

Thesis: The Indico KT Project: Improving the worldwide impact of Indico

Final rank: 110/110 cum laude

Sept 2010 – July 2011 | **Bachelor's degree in Computer Engineering (Erasmus)** | ISCED 6

Polytechnic University of Madrid (Spain)

Faculty of Computer Science

Oct 2009 – Dec 2012 | **Bachelor's degree in Computer Science** | ISCED 6

University of Florence (Italy)

Faculty of Maths, Physics and Natural Sciences

Projects
- *Cerithidea Decollata*: neural network to simulate intertidal snails predicting the incoming tide

Thesis: Algorithm Visualization in HTML5

Final rank: 110/110 cum laude

Sept 2004 – July 2009 | **Scientific High School** | ISCED 3

State Institute of Higher Education *Giorgio Vasari*, Figline e Incisa Valdarno (Italy)

National Plan of Computer Studies (PNI)

Final rank: 76/100

PERSONAL SKILLS

Mother tongue: Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	C1	C1
Spanish	B2	C1	B2	C1	C1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills: I have worked both in research teams and development teams. I enjoy working in teams and I consider myself a fast learner.

Organisational / managerial skills: During the first year of my PhD and my research activity I supervised several students both for exam projects and thesis research. Experienced with Agile methodologies, especially Kanban and Scrum.

Computer skills
- programming languages: Java, C, C++, C#, Python, Javascript, Matlab, SQL, shell scripting, MIPS assembler, declarative programming, λ-calculus
- markup languages: HTML5, XML, CSS
- modeling languages: Petri Nets, UML, IDEF0
- gamedev tools: Unity, Unreal Engine 4, OpenGL, Blender
- other tools: Jinja2, Git, Github, QEMU, VirtualBox, SASS, Eclipse, Visual Studio, Windows, Linux, dotfiles, Python Fabric, Jekyll, LaTeX

Other skills: Playing the guitar and listening to music. Training (mainly as a boxer) and doing sports in general. Practising meditation. Reading books and watching movies of different kinds, especially sci-fi. Passion for science. Playing every kind of videogame. Love to travel and experience different cultures.

Driving licence: A, B (car and motorbike owner)

ADDITIONAL INFORMATION

References

- Pedro Ferreira, CERN, Geneva (Switzerland)
- Alejandro Avilés, Bity, Neuchâtel (Switzerland)
- Prof. Pierluigi Crescenzi, University of Florence (Italy)
- Prof. Gregorio Landi, University of Florence (Italy)
- Prof. Enrico Vicario, University of Florence (Italy)

Other projects

- *Blindstore*: private information retrieval data store. Best Technology winning project at CERN Summer Student Webfest 2014 & participant of The Port Hackathon 2014 @CERN

Publications

- Stefano Martina, Marco Paolieri, Tommaso Papini, and Enrico Vicario. Performance evaluation of fischer's protocol through steady-state analysis of markov regenerative processes. In *Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS), 2016 IEEE 24th International Symposium on*, pages 355–360. IEEE, 2016
- Marco Biagi, Laura Carnevali, Marco Paolieri, Tommaso Papini, and Enrico Vicario. Exploiting non-deterministic analysis in the integration of transient solution techniques for markov regenerative processes. In *International Conference on Quantitative Evaluation of Systems*, pages 20–35. Springer, 2017
- Marco Biagi, Laura Carnevali, Tommaso Papini, Kumiko Tadano, and Enrico Vicario. An inspection-based compositional approach to the quantitative evaluation of assembly lines. In *European Workshop on Performance Engineering*, pages 152–166. Springer, 2017

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