

## PERSONAL INFORMATION

## Matteo Di Pirro



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 matteodipirro@gmail.com

Sex Male | Date of birth 11/08/1994 | Nationality Italian

## WORK EXPERIENCE

11/06/2012–06/07/2012

## Computer programmer

ISIB CNR, Institute of Biomedical Engineering, Padova (Italy)

- Develop of a basic content management system using PHP, MySQL, HTML, CSS and JavaScript for an european research group.

05/2016–07/2016

## Software Engineer

Athesys SRL, Padova (Italy)

During this internship I developed a module for an Identity and Access Management cloud based (IDaaS) system. The main goal of this module was the management of the application catalogue. The catalogue is an important piece of the entire system, because it allows users to select, and consequently use, applications accessed in the Single Sign-On way. The module was able to manage the entire application lifecycle, from its creation to its deletion through the configuration of the SSO attributes.

I developed the backend part of the module, so I used the server part of the MEAN technological stack, in particular:

- Node.js as runtime environment;
- Express.js to define APIs;- MongoDB to store data.

## EDUCATION AND TRAINING

2008–2013

## Technical manager, specializing in computer science

EQF level 5

ITIS Francesco Severi, Padova (Italy)

General

- English language, Computer Science, Mathematics

Occupational

- Computer Programming (Java, C++)
- Web development (HTML, CSS, JavaScript)
- Relational database (SQL)
- Computer networks and main operating systems (Windows, Linux)

2013–2016

## Bachelor degree in Computer Science

EQF level 6

University of Padova, Padova (Italy)

Passed exams:

- ) Computer Architecture
- ) Logic
- ) Mathematical Analysis
- ) Algebra and Geometry
- ) Operating Systems

- ) Programming (C/C++)
- ) Discrete mathematics and Probability
- ) Automata and Formal Languages
- ) Computer Networks and Security
- ) Object-Oriented Programming (C++)
- ) Physics
- ) Algorithms and data structures
- ) Database (SQL)
- ) Numerical Analysis
- ) Concurrent and Distributed Programming (Java)
- ) Operations Research
- ) Web Technologies
- ) Open Source Technologies
- ) Business Administration and Organization
- ) Software Engineering

Thesis title: Management of an Identity and Access Management cloud-based system (see Athesys s.r.l. internship description)

Final mark: 110/110 con Lode

## 2016–Present

EQF level 7

Master Degree in Computer Science, Padova (Italy)

Main interests:

- ) Software
- ) Reliable systems

Passed exams:

- ) Advanced Topics in Programming Languages (as a final project I did a theoretical study of the Scala's spores)
- ) Functional Languages (Haskell)
- ) Computer and Network Security (as final project I developed a small information-security oriented library using some Haskell type system's advanced features)
- ) Data Mining
- ) Computability
- ) Algorithms (basic graph traversal, string matching and model checking)
- ) Mobile programming (as a final project we developed a small trivia quiz Android app, with both Google and Facebook's sign in and Google Games integration)
- ) Real-time systems
- ) Type Theory (I solved the vast majority of the assigned exercises using the Coq proof-assistant)

## 09/2017–02/2018

### Erasmus (Computer Science)

EQF level 7

KU Leuven, Leuven (Belgium)

During my Erasmus at KU Leuven I will deepen my knowledge about software and reliable systems; in particular:

- ) Development of secure software
- ) Software for real-time and embedded systems
- ) Distributed systems
- ) Modelling, interconnecting and processing large volumes of data on the Web

## PERSONAL SKILLS

### Mother tongue(s)

Italian

### Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2

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 gained good communication skills during a number of group projects conducted at University. I worked in teams with a minimum of two to a maximum of seven members.

**Organisational / managerial skills** I gained basic organisational and team leading skills during group project works at University.

**Job-related skills** - Basic command of quality control processes (currently quality plan co-writer for an academic project)

#### Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

#### Digital competences - Self-assessment grid

- Good command of Office suite
- Good knowledge of the following programming languages: Java, C/C++, PHP, Perl, JavaScript, Node.JS, TypeScript, Haskell.
- Good knowledge of the following markup languages: HTML, LaTeX
- Good knowledge of the following stylesheet languages: CSS, XSL
- Good knowledge of XML, XML Schema, DTD and XPath
- Advanced knowledge of relational databases (MySQL)
- Good knowledge of NoSQL databases (MongoDB)

**Driving licence** B

#### ADDITIONAL INFORMATION

**Publications** Ensuring Information Security by Using Haskell's Advanced Type System  
In Proceedings Of ICCST 2017 (International Carnahan Conference on Security Technology), to be presented on October 2017  
Authors: Matteo Di Pirro (University of Padua), Mauro Conti (University of Padua), and Riccardo Lazzeretti (Sapienza University of Rome)