

Matteo Di Pirro

SOFTWARE ENGINEER

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Education

KU LeuvenLeuven, Belgium

Erasmus Student Sept. 2017 - Feb. 2018

Università degli Studi di Padova

Padua, Italy

MSc in Computer Science

Sept. 2016 - Sept. 2018

- Thesis: How Solid is Solidity? An In-depth Study of Solidity's Type-Safety.
- · Majors
 - Design and development of reliable systems
 - Software and theory of programming languages
- · Magna cum Laude

Università degli Studi di Padova

Padua, Italy

BSC IN COMPUTER SCIENCE

Sept. 2013 - Sept. 2016

- Thesis: Management of an Identity and Access management cloud-based system.
- · Magna cum Laude

ITIS Francesco Severi

Padua, Italy

HIGH SCHOOL Sept. 2018 - June. 2013

- Thesis: Speech recognition in Android.
- Mark 100/100

Skills_

Programming Node.js, Python, Java, C++, Solidity, Haskell, JavaScript

Databases MySQL, MongoDB

Versioning Git **Documents** LaTeX

Languages Italian (mother tongue), English (fluent), French (beginner)

Work Experience _____

Athesys SRLSoftware Engineer

Padua, Italy

May. 2016 - Jul. 2016

• Designed an overall microservices-based architecture cooperating with an existing environment.

- Developed a module for an Identity and Access Management cloud-based (IDaaS) system (Monokee).
- Implemented several RESTful APIs in Node.js, in particular using the Express.js library and storing data in a MongoDB database.
- Developed a built-in logging system to monitor user activities.

CNR (Consiglio Nazionale delle Ricerche) - Institute of Biomedical Engineering

Padua - Italy

PROGRAMMER

Jun. 2012 - Jul. 2012

- Designed and developed a basic content management system (CMS) for an European research group.
- Implemented both front-end (HTML, CSS) and back-end (PHP, JavaScript, MySQL).

Selected projects

LinQedIn

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- · LikedIn-like local social network with basic client and admin functionality
- Clients could sign-up, manage their profile and their contacts network and search for people
- Permission-based search engine: different filters available for different types of users
- Admins could manage the application with no restrictions

Haskell Secure Library

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- Investigation on language-based information security
- The Haskell library I developed enforced fine-grained data integrity and confidentiality properties

18F97J60 Microchip KU Leuven

- Basic timer counting time and flashing LEDs when scheduled
- DHCP relay forwarding packets from/to clients and servers. It was developed using the TCP/IP Microchip's stack.

Football Fact-Checking KU Leuven

- The application was meant to validate claims and check facts related to football. Three were the components: language analysis, categorization and actual fact checking.
- Some facts were hard-coded, whereas others were taken from Twitter.
- The fact checking algorithm used a built-in knowledge graph.

ColumbusUniversità degli Studi di Padova

- Simulation of the very first stage of the startup lifecycle
 - Busines idea
 - Market and competitors analysis
 - Business mdoel definition
 - Investor pitch

Publications

PROCEEDINGS OF INTERNATIONAL CONFERENCES

• Di Pirro, Matteo and Conti, Mauro and Lazzeretti, Riccardo. "Ensuring information security by using Haskell's advanced type system". In Security Technology (ICCST), 2017 International Carnahan Conference on, pp 1–6. IEEE, 2017

THESIS

• Di Pirro, Matteo. "How Solid is Solidity? An In-dept Study of Solidity's Type Safety". Master Thesis. Università degli Studi di Padova, 2018