

MATTEO MADEDDU

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Platform Engineer I am a platform engineer with a bachelor and a master degree in computer science - focused on artificial intelligence. I'm a AWS Certified Solution Architect and AWS Certified Machine Learning Specialist. I love **Golang**, **Docker**, serverless architecture and **quantum** computing/mechanics. In my free time, I'm a software developer - you can find me on Github at [@made2591](https://github.com/made2591), a **blogger** at <https://madeddu.xyz/>, a juggler, a skier, a skater, a guitarist (sometimes) and a dreamer (always). I'm always looking for something to **learn**, for a team of passionate people to work with, a mentor to guide us, in a company that wants to make the difference.

WORK EXPERIENCES



adidas
Herzogenaurach, Germany
Jun 2018 - Now

Platform Engineer

Build the new **AWS**-based platform for data a/e/s, dealing with infrastructure design and application migration/development. Worked on: **image recognition** at scale. Techs: **ECS**, Lambda, Step Functions, **Docker**, Terraform, Python, Javascript, Golang.



GE Aviation
Torino, Italy
Feb 2017 - Jun 2018

Internship / Platform Engineer

Leverage AWS services, design and develop applications - **web based** - and systems integration / migration. Worked also on: **Predix** as internal committer of GE Digital Store, scheduling of distributed systems workload running on-premise. Techs: **Golang**, **Vue.js**, Python, Sqoop.



List s.p.a
Torino, Italy
Sep 2016 - Dec 2016

Software Engineer

Maintenance and **development** of software - **web based** - for banks and insurance companies. Techs: Spring, **Java**, several front-end web frameworks, Python, Oracle.



University of Torino
Torino, Italy
Apr 2016 - Sep 2016

Research Fellowship

Collaboration with the University data-oriented research group and CRIT to study the **temporal evolution** and structural properties of communities in complex networks. Worked also on: development of part of a probabilistic model. Techs: **Java**, **MATLAB**, Python.

CERTIFICATIONS



AWS Certified Solutions Architect - Associate

Released in date: March 25th, 2019. ID AWS00711861. Follow the link: <https://goo.gl/PA7Evc>



AWS Certified Machine Learning - Specialty

Released in date: December 20th, 2018. ID AWS00711861. Follow the link: <https://goo.gl/yLwQUA>

EDUCATION

University of Torino, Italy

Department of Computer Science.
Final Vote: **110/110 summa cum laude and distinction**
2013 - 2015

Master's Degree in Artificial Intelligence and Software Engineering

My thesis consists in the study and the development of a visual auditory model realized through **neural networks**, to explain the formation of the **taxonomic response** and the fast-mapping abilities of children in early childhood. Involved techs: MATLAB. I **won the AI*IA special mention** for the best Italian Thesis in Artificial Intelligence for the year 2016. An article extracted from this work was **published in the Journal of Cognitive System Research in 2018**.

University of Torino, Italy

Department of Computer Science.
Final Vote: **108/110**
2010 - 2013

Bachelor's Degree in Networks and computer systems

My thesis consists in the design and the **development of a web application** according to the specifications of a **research project** of the ARCS group for the creation of a **recommendation system** that uses gamification techniques in order to solve the cold start problem. Involved techs: **Symfony (PHP framework)**, Git, front-end Javascript / CSS libraries and tools.

PUBLICATIONS & SEMINARS

Journal of Cognitive Systems Research: 2018

*A visual auditory model based on **Growing Self-Organizing Maps** to analyze the taxonomic response in early childhood* was published by Cognitive System Research. The article is available: <https://goo.gl/sFPTGm>.

Bootstrap 3.0: 2014

Seminar personally led on the **Twitter's front-end CSS framework**, during the "Web Technologies" course held in the Department of Computer Science of Turin. The slides are available: <https://goo.gl/CSEpSF>.

Symfony: 2013

Seminar personally led on the **Symfony PHP framework**, in particular on the template engine (focus on **Twig**) and ORM (focus on **Doctrine**), for the "Web Technologies" course held in the Department of Computer Science of Turin.

I'M PROUD OF

Quantum Computing Notes

From time to time, I like studying and reading about the quantum world. After reading some books, a few time ago I started to collect some **quantum-notes**: in this document I write my personal notes about **IBM Q platform** and the quantum-computing world in general. I received very good feedback regarding this work and I was invited to talk about the IBM Platform in the University of Verona. I usually provide a (not super updated) pre-compiled version of this document at this link: <https://goo.gl/aUSrpz>.

go-perceptron-go

This is **my most starred Github repository**: it's a parametric multi-layer perceptron classifier with weights estimated using stochastic gradient descent written in **Golang**. It also provides **parametric network topology** - only one array of integers - and validation package with k-fold cross validation. The repository was originally created for the perceptron only, then I also introduced a recurrent neural network model. This repository was linked as **top ranked on Hacker News** for a couple of days and **shared on HN social official pages**! The link to the repo: <https://goo.gl/qV7fmL>.

immutable

immutable aims to be - it's still becoming - my best implementation of a completely immutable, opinionated and DRY-driven repository. In few words, the idea behind *immutable* is to provide **one-command deployable repository** that contains everything needed to deploy itself: above the infrastructure, which is provisioned by **terragrunt** and **terraform**, there are some actors (Jenkins, but I'm planning to move to serverless) coded to be redeployed and start the redeployment of the applications - in the future, even pieces of infrastructure. I also **wrote an article** in my blog about it: <https://goo.gl/4dqqkZ>. The link to the repo: <https://goo.gl/p7inY3>.

Coppeliaperladanza

This is a **static website** realized for the sports association Coppelia a.s.d. I designed, created and I actively maintain the website: this is nothing special from a technological perspective, but it still helped my sister to gain some new students in her ballet school! You can have a look: <https://goo.gl/gu9Qhp>.

My Github page

Some other projects I collected over the years: <https://goo.gl/Yaya9z>.

INTERESTS

Golang, Docker, orchestration, networking, quantum computing, vintage, 80s-computer science, Apple, Linux. And yes, travelling, of course.