

Matteo Avellina

Via Dei Fiordalisi, 1 - 20146 Milano, MI, Italy
matteo.avellina@gmail.com · <https://mechpig.me> · +39 328 7685221
<https://linkedin.com/in/matteo-avellina> · <https://github.com/mech-pig>

WHOAMI

I'm a software developer living in Milan, Italy.

A large part of my job consists of designing and building web APIs and helping others to do the same. I work mainly in Python and Node.js, but I have an interest in programming languages and software development at large. I always try to write clean, modular and concise code.

I value pragmatic minimalism, clean architecture, microservices, automation and immutability, and try to pursue them whenever possible.

WORK EXPERIENCE

iGenius, Milano, MI, Italy

Team Leader Backend

Feb 2019 – Present

- lead a team of 10+ people, supporting them in their daily duties with mentoring, 1:1s, reviews and retrospectives
- contribute to the design of the backend architecture, using a service-oriented architecture approach built on top of Docker and Kubernetes
- contribute to the product development from high-level requirements to code, following the best practices in software development (clean code, clean architecture, DDD, event sourcing) and the principles of the Agile manifesto
- brought 8 new team members on board, conducted more than 35 technical interviews, screened more than 120 resumes

Backend Developer

Mar 2017 – Feb 2019

- designed and implemented backend services and web apis in python (falcon, flask, fastapi) and node.js (express)
- contributed to the transition from a monolithical architecture to a service oriented one, based on Docker and deployed on AWS
- worked with redis and PostgreSQL, managing schema migrations with sqitch

Mammaltalia, Milano, MI, Italy

Backend Developer

Jan 2016 – Jun 2016

- developed a rest api service that lists grocery stores selling a given product based on user location
- worked with Django with Django REST Framework, backed by PostgreSQL with PostGIS extension

EDUCATION

Politecnico di Milano - Polo Territoriale di Como, Como, CO, Italy

M.Sc., Computer Science and Engineering - Sound and Music Engineering

2012 – 2016

110/110 *cum laude*

Politecnico di Milano, Milano, MI, Italy

B.Sc., Computer Science and Engineering

2009 – 2012

102/110

Liceo Scientifico Elio Vittorini, Milano, MI, Italy

Diploma di Maturità Scientifica

2004 – 2009

100/100

PUBLICATIONS

Avellina, M., Brankovic, A., and Piroddi, L., "Distributed randomized model structure selection for NARX models.", *International Journal of Adaptive Control and Signal Processing*, vol. 31 (2017) doi:10.1002/acs.2803

SKILLS**Programming Languages**

- Python
- Node.js
- Haskell (Basic)

Software Development

- Rest API Design
- Clean Code
- Test-Driven Development
- Clean Architecture
- Microservices
- Domain-Driven Design
- Functional Programming

Integration & Deployment

- GitlabCI, CircleCI
- Docker
- Kubernetes (Basic)

Databases

- PostgreSQL
- redis
- MongoDB (Basic)

LANGUAGES

Italian: Native language.

English: Proficient (speaking, reading, writing).

German: Basic.

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