Matteo Avellina

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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

Glickon, Milano, MI, Italy
Senior Backend Developer   Jun 2020 – Present
· designed and implemented python-based web apis and services (Django, fastapi), backed by PostgreSQL and MongoDB
· setup continuous integration pipelines with Github Actions (static analysis, unit and integration testing, deploying to staging environment)
· advocated the use of containers for software development and deployment, contributed to the migration of all production services from Heroku to Google Cloud Platform (Cloud Run)
· developed multi-tenant single sign-on integrations with customers' identity providers, based on open source federation protocols (SAML, oAuth2/OIDC)

iGenius, Milano, MI, Italy
Team Leader Backend   Feb 2019 – May 2020
· lead a team of 10+ people, supporting them in their daily duties with mentoring, 1:1s, reviews and retrospectives
· contributed to the design of the backend architecture, using a service-oriented architecture approach built on top of Docker and Kubernetes
· contributed 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

MammaItalia, 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, Github Actions
· Docker
· Kubernetes (Basic)

Databases
· PostgreSQL
· redis
· MongoDB

LANGUAGES Italian: Native language.
English: Proficient (speaking, reading, writing).
German: Basic.