MARCO TINACCI

Senior Software Developer

@ tinacci.marco@gmail.com ☎ +44 757 2248207 ⚲ London, UK
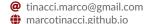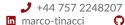🌐 marcotinacci.github.io in marco-tinacci ⌨ marcotinacci

EXPERIENCE

Lead Software Engineer
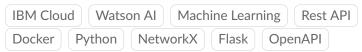**Nationwide Building Society**

📅 December 2018 – Present   ⚲ London, UK

- Responsible for DevOps and microservice infrastructure in Kubernetes, Terraform, and AWS
- Developed backend, infrastructure, and deployment cycle of the green field mobile application hearth.co.uk for first-time home-buyers
- Led and developed green field MVPs, like thelandlordworks.co.uk
- Designed and implemented an intellectual property algorithm to sort properties in London by best commute time
- Hire selection and mentoring of new developers

Terraform   AWS   Kubernetes   GitLab CI   Golang
Neo4j   ArgoCD   Datadog   Helm   MongoDB

Full Stack Developer
Ems.ai

📅 May 2018 – November 2018   ⚲ London, UK

- Managed the backend infrastructure, and worked with both NoSQL and SQL databases
- Designed and implemented an engine to compute commute times on TFL data
- Implemented ETL pipelines, web scrapers, and image classifiers
- Implemented Rest APIs in coordination with the Vue frontend, and documented with OpenAPI and Swagger

IBM Cloud   Watson AI   Machine Learning   Rest API
Docker   Python   NetworkX   Flask   OpenAPI

Backend Developer
Witapp SRL

📅 October 2017 – April 2018   ⚲ Florence, Italy

- Responsible for the backend infrastructure of multiple projects on different cloud providers
- Implemented and maintained a microservice infrastructure on Kubernetes
- Mentored and managed a team of developers

GCloud   AWS   Docker   Rest API   Swagger
Kubernetes   RabbitMQ   PostgreSQL   React   Python

ABOUT ME

Computer scientist with 7 years of practical experience across software engineering, backend development, and DevOps. Always eager to learn and to improve my skills, my academic background in computer science gives me strong foundations to have a high level understanding of software products, and to be able to design and implement new intellectual property.

EDUCATION

M.Sc. in Computer Science
Università degli Studi di Firenze

📅 December 2009 – December 2012
GPA: 4.0

B.Sc. in Computer Science
Università degli Studi di Firenze

📅 December 2005 – December 2009
GPA: 4.0

CERTIFICATIONS

✓ **Deep Learning Specialization**
Coursera – February 2021

✓ **Sequence Models**
Coursera – February 2021

✓ **Convolutional Neural Networks**
Coursera – January 2021

✓ **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization**
Coursera – January 2021

✓ **Neural Networks and Deep Learning**
Coursera – January 2021

✓ **Structuring Machine Learning Projects**
Coursera – January 2021

LANGUAGES

English – Fluent

Italian – Native

Backend Developer
Balzo

📅 September 2016 – September 2017 📍 Florence, Italy

- Responsible for deployment and integration of backend application over different cloud providers
- Lead backend developer in a team dedicated to rapid prototyping and MVPs
- Continuous communication with my colleagues to align and agree on REST APIs design for mobile applications

AWS GCloud Heroku Flask Django Kubernetes
Python PostgreSQL PHP CodeIgniter

Doctoral Research Assistant
IMT School For Advanced Studies Lucca

📅 February 2013 – August 2016 📍 Lucca, Italy

- Research on model checking algorithms and formal methods as part of my PhD thesis
- My studies involved game theory, model predictive controls, optimization algorithms, cloud computing, distributed and parallel programming
- Developed compilers to implement my own programming languages using Xtext and Eclipse in Java
- Analysed banks lending networks with NetworkX in python
- Joined the MOVES team as visiting PhD student at the RWTH Aachen University, Germany
- Presented at MOVEP 2014: 11th Summer School on Modelling and Verification of Parallel Processes, École Centrale de Nantes, France
- Participated to AWASS 2013: 2nd Awareness Summer School

Model Checking Formal Methods Network Theory
Game Theory Python Java Matlab Optimization

SKILLS

Computer Science

Game Theory Model Checking
Optimization Machine Learning
Artificial Intelligence Formal Methods

Programming Languages

Python Golang Java
C++ Bash Matlab

Frameworks

Django Flask Golang Echo

Libraries

React NetworkX Xtext

Web APIs

REST GraphQL

Operative Systems

Linux Windows MacOS

DevOps

Terraform Kubernetes Helm AWS
Docker Git GCloud Heroku

CI/CD

ArgoCD Jenkins Github Actions
GitLab CI Codeship

Databases

MySQL PostgreSQL Neo4j
Miscrosoft SQL Server MongoDB
CouchDB Redis

INTERESTS

🎞 Cinema

📷 Photography

🎲 Boardgames

🎮 Video games

</> Coding

☕ Coffee