Mario Sangiorgio

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I'm a senior software engineer with 8 years of experience designing, building and operating large-scale systems. I specialise in distributed systems and low-latency systems. I am also interested in programming languages and developer tools. I am experienced working in distributed teams and looking for a remote position.

Experience ____

Apple

SENIOR SOFTWARE ENGINEER · SWIFT, KUBERNETES

- Designed and built the FaaS compute platform supporting large-scale iCloud services including (among others) iCloud Photos Library, iCloud data security, Apple Fitness+, Notes
- Helped teams to onboard on the platform and improved tools to make the process as self-service as possible
- Migrated services to the internal Kubernetes clusters
- · Collaborated with the SRE team to define SLOs and ensure correct operation of production systems
- Contributed to server-side Swift in both internal and open source projects
- Often been a project Directly Responsible Individual, mentored new joiners and introduced partner teams to the system architecture
- Worked effectively in a team distributed across several locations in Europe and the United States

G-Research

Software Developer · C#, F#, C++

- Built real-time and low-latency services and their supporting infrastructure
- Developed user interfaces used to control/monitor live trading and to analyse the behaviour of the trading strategies
- Turned a monolith into a set of (micro) services increasing reliability and maintainability of the whole system
- · Contributed to the adoption of continuous delivery, increased the test coverage and replaced brittle tests with more reliable ones
- Led project work and mentored several new engineers as they joined the team

Politecnico di Milano

TEACHING ASSISTANT · SOFTWARE ENGINEERING UNDERGRADUATE COURSE · JAVA

• Taught part of the lectures of the course, organised the laboratory assignments and tutored the students on their project work

Education

Politecnico di Milano

PhD in Computer Science and Engineering · Graduated with Merit

- Major research topic: static and dynamic program analysis, modelling software behaviour and specification inference
- · Minor research topic: data mining and social network analysis applied to scientific literature
- · Published papers in international conferences and journals

Massachusetts Institute of Technology

VISITING PHD STUDENT

· Contributed to a research project exploring data-driven approaches to program synthesis

University of Illinois at Chicago

MASTER OF SCIENCE IN COMPUTER SCIENCE · GRADE POINT AVERAGE: 3.72/4.00

• Double degree program

Politecnico di Milano

BACHELOR AND MASTER OF SCIENCE IN COMPUTER ENGINEERING • FINAL MARK: 110/110 SUMMA CUM LAUDE

• Attended Alta Scuola Politecnica multi-disciplinary courses

Boston, MA, United States

January 2011 – December 2013

September 2012 – December 2012

March 2009 - May 2011

Milano, Italy October 2005 – December 2010

Skills

Programming	Swift, C#, Java, C++, F#, Rust, Elixir, Python, Go, JavaScript, Scala
Expertise	Software design, backend development, distributed systems, program analysis, data mining and machine learning
Certifications	Certified Kubernetes Application Developer (2020)
Languages	Italian, English

London, United Kingdom

London, United Kingdom November 2018 – Present

January 2014 – November 2018

Milan, Italy

Milano Italy

Spring 2011, spring 2012, spring 2013