Michele **Riva**

SENIOR ARCHITECT · BOOK AUTHOR · GOOGLE GDE · INTERNATIONAL SPEAKER

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Summary

I'm a passionate and experienced software architect from Milan, Italy.
I've been working for almost 10 years in both product and consultancy companies, taking the best from both worlds.

During the last years, I spoke at many international conferences, published many public domains articles (also on distinguished publications such as TowardsDataScience), hosted a podcast, and contributed to many open-source projects. I've also wrote a book for Packt Publishing on real-world Next.js web applications.

In October 2021, I've entered the prestigious Google Developer Expert program as a Google Cloud Platform expert.

Work Experience

Nearform   *Remote*

SENIOR SOFTWARE ARCHITECT   *Feb. 2022 - PRESENT*

• TBA

ViacomCBS   *Remote*

SENIOR SOFTWARE ENGINEER   *Apr. 2020 - Feb. 2022*

• Designed, documented, and implemented the new multi-tenant architecture of ViacomCBS, hosting more than 200 websites (including streaming services, news websites, and smart TV webviews) using AWS, Next.js, TypeScript, and Kubernetes. This allows us to adopt CI/CD with multiple deployments per day in a large team (around 100 developers), with the ability to push a new feature or fix to production in less than one hour.
• Created a custom, real-time, high-performance JavaScript/TypeScript compiling and bundling system, which improved the compiling phase of an entire monorepo by 90%.
• Defined the testing strategies and best practices for the whole web engineering department, leading to a +50% improvement in performance and over 98% of code coverage on a large (>50.000 files) monorepo.
• Led both technical and behavioral interviews of around 50 senior engineers candidates.
• Onboarded, mentored, and trained new colleagues on the current technology stack and coding style guides.

Packt Publishing   *Remote*

BOOK AUTHOR   *Nov. 2020 - Jan 2022*

• Authored "Real-World Next.js", an advanced book that teaches best practices for building Next.js applications.

Openmind (Part of Accenture Interactive)   *Monza, Italy*

SENIOR SOFTWARE ENGINEER   *Jan. 2018 - Apr. 2020*

• Designed, documented, and implemented a new architecture for the production line software of our biggest client in the automotive sector using Elixir, TypeScript, and Golang.
• Developed web interfaces for big international companies such as Maserati, Gucci, Fendi, Piaggio, etc., using React.js, Vue.js, TypeScript, and styled-components.
• Led technical interviews and helped hire around twenty developers.
• Advocated for modern technologies adoption, such as ESNext, TypeScript, and Golang by giving internal talks, writing articles, and promoting open-source projects while training and mentoring colleagues.

GMDE s.r.l.   *Agrate, Italy*

SOFTWARE ENGINEER   *Dec. 2014 - Jan. 2018*

• Developed news websites for some of the most prominent newspapers in Italy, always caring about performance, accessibility, and reliability.
• Developed web applications using PHP Symphony, Ruby, Node.js, React.js and Vue.

Evolution Graphic   *Agrate, Italy*

SOFTWARE ENGINEER INTERN   *Dec. 2013 - Dec. 2014*

• Developed and published WordPress websites with custom themes and plugins.
• Worked on sysadmin tasks such as VPS setup and CI/CD workflows on DigitalOcean, using GitLab and Jenkins.

Certifications

Oct. 2021 **Google Developer Expert**, Entered the Google Developer Experts program in Google Cloud Platform *Google*
Nov. 2021 **Certified Scrum Product Owner**, Certified by Scrum Alliance *Scrum Alliance*

Notable OSS Projects & Contributions

Krabs
TypeScript

EXPRESS.JS AND FASTIFY MIDDLEWARE AND VIRTUAL HOST FOR MULTI-TENANT NEXT.JS APPLICATIONS *Personal project*

- Created and maintained the Krabs open-source library for multi-tenant Next.js applications.
- Wrote the whole CI workflow using GitHub Actions and third-party services (such as Codecov, Travis CI, Synk, etc.) for code analysis and publication.

Gauguin
Golang

HIGH PERFORMANCES GOLANG SERVER FOR GENERATING SOCIAL SHARE IMAGES DYNAMICALLY *Personal project*

- Created and maintained the Gauguin, a high-performance, open-source Golang server that generates dynamic open-graph and social images using the Chrome DevTools Protocol.

Duckling
Haskell

LANGUAGE, ENGINE, AND TOOLING FOR EXPRESSING, TESTING, AND EVALUATING COMPOSABLE LANGUAGE RULES ON INPUT STRINGS
Facebook open-source project

- Improved Duckling by writing the Italian rules and regular expressions for extracting the amount of money Italian sentences.
- Improved Duckling by writing the Italian rules and regular expressions for extracting the distances (and measurement units) from Italian sentences.

Strapi
Node.js

OPEN SOURCE NODE.JS HEADLESS CMS TO EASILY BUILD CUSTOMIZABLE APIS *Strapi open-source project*

- Configured Apollo Server for introspection queries on the Strapi GraphQL Plugin

Clio
Node.js

CLIO IS A FUNCTIONAL, PARALLEL, DISTRIBUTED PROGRAMMING LANGUAGE *The Clio Programming Language*

- Implemented a custom npm-compatible package manager for the official Clio programming language tooling.
- Made various performance enhancements on the parser and improved unit tests.

Extracurricular Activity

Published 50+ public domain articles
Remote

WRITER

I've published more than 50 tech articles on Medium, winning the first prize as a top 0.01% most popular author on the whole website for two months in a row.

Inference Podcast
Remote

HOST *Mar. 2021 - Present*

I've hosted 13 episodes of the Inference Podcast, where I talked with popular and talented software engineers, languages authors, and company CEOs, mainly in the Haskell and Erlang community.

Tomorrowdevs
Remote

MENTOR, TEACHER *Jan. 2020 - Present*

Mentoring developers while helping them access the tech industry.

Public Speaking
Remote

SPEAKER

I talked to some of the most important tech conferences, such as Codemotion, JSDay, Open Source Day, etc.