

# Michele Riva

SENIOR ENGINEER · BOOK AUTHOR · GOOGLE GDE · INTERNATIONAL SPEAKER

Milan, Italy

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## Summary

I'm a passionate and experienced software engineer and architect from Milan, Italy.

I've been working as a software engineer 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 more than 50 public domains articles (also on distinguished publications such as TowardsDataScience), hosted a podcast, and contributed to many open-source projects. I'm currently writing 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

### ViacomCBS

[Remote](#)

SENIOR SOFTWARE ENGINEER

*Apr. 2020 - PRESENT*

- 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 (>500.000 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 - PRESENT*

- 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.

## Skills

### Programming

Node.js, TypeScript, Golang, Elixir, React.js, Vue.js

### DevOps

AWS, Google Cloud Platform, Cloudflare, Kubernetes, Bash scripting

### Databases

PostgreSQL, CouchDB, Apache Cassandra, Google Big Table, Google Big Query, AWS Dynamo

### Tools

Jira, Git, Stash, GitHub

### Languages

English, Italian

## 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

*Facebook open-source project*

STRINGS

- 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 7 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.