

# RENATO GOLIA

## PERSONAL INFORMATION

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## PROFILE

Software can be used to shape our world for the better and the worse. It's up to us to decide how to wield this incredible tool. Personally, I aspire to contribute to the betterment of the world by helping positive companies achieve their potential through scalable and efficient software architectures that leverage the power of the cloud.

Originally from Italy, I moved to Stockholm, Sweden in 2008, right after completing my university degree in Computer Engineering at University Federico II of Naples, Italy.

During my 12 years at Educations Media Group (now part of Keystone Education Group), I went from software developer to software architect, team manager and, finally, CTO.

In December 2020, I started my own consulting firm to support diverse realities within the tech space.

In my spare time, I contribute to few Open-Source projects, and I have even started few of my own so to offer better tools to the whole .NET community.

I also have my own blog where I share solutions to the various issues I meet in my daily work.

## SKILLS

I have been working with **.NET** and **AWS** for almost the entirety of my professional career and I like not only combining the two, but also building tools to help other developers efficiently work with them. As a software architect, I love working with the newest technologies available and therefore I eventually gravitated towards cloud-based systems.

Within the wide spectrum of Microsoft technologies, I've moved to the newest breed of technologies such as **ASP.NET Core** (both HTTP and GRPC services) and **Entity Framework Core**. Storage products I've worked with are **SQL Server**, **Elasticsearch**, **Redis**, **Amazon DynamoDB**. I have strong CI/CD experience and I've worked with tools like **TeamCity**, **Octopus Deploy**, **CircleCI**, **AppVeyor**.

Besides the technical aspect of the different roles, I enjoyed the gradual responsibility over the team that I was given at EMG. At varying degrees during the years, I was involved with the **recruitment** process, **upskilling** of the developers, solidifying and planning the **budget** for the whole department, **reorganizing the department** both in terms of structure and processes.

Furthermore, when I took the role of team manager, I attended the **UGL** course: a course that shaped in many ways my managerial philosophy based heavily on **trust** and **immediate feedback**.

Finally, I am an **Italian native speaker**, **fluent in English** and I can communicate in **Swedish** although I prefer to work in English.

## CERTIFICATIONS AND COURSES

### "AWS CERTIFIED SOLUTIONS ARCHITECT - ASSOCIATE" – 18/06/2019 – 06/2022

Credential URL: <http://aws.amazon.com/verification>

Credential ID: 47NXYZNKJB1Q13WD

### "THE ARCHITECT'S MASTER CLASS" BY JUVAL LÖWY – 12-16/06/2017

Service oriented architecture based on WCF technologies.

<http://www.idesign.net/Training/Architect-Master-Class>

### "THE PROJECT DESIGN MASTER CLASS" BY JUVAL LÖWY – 4-8/05/2015

A course aiming to help project managers and architect to properly structure the project needed to make real a software architecture.

<http://www.idesign.net/Training/Project-Design-Master-Class>

### UGL – UTVECKLING AV GRUPP OCH LEDARE – 13-17/05/2013

A course focused on groups and how their dynamics affect results and how leadership styles should be adapted to the group's maturity stage.

### "THE ARCHITECT'S MASTER CLASS" BY JUVAL LÖWY – 17-21/05/2010

Service oriented architecture based on WCF technologies.

<http://www.idesign.net/Training/Architect-Master-Class>

### MICROSOFT CERTIFIED PROFESSIONAL – 20/08/2009

- 70-536 - TS: Microsoft .NET Framework - Application Development Foundation

## PROFESSIONAL EXPERIENCE

### INSIGHT ARCHITECTURES – 12/2020 – PRESENT – SOFTWARE ARCHITECT AND FOUNDER

In December 2020, I started Insight Architectures to focus on my passion for distributed cloud-based architectures with the vision of making the world a better place by helping companies with positive missions.

### TOBII DYNAVOX – 09/2023 – PRESENT – SOFTWARE ARCHITECT (CONTRACTOR)

At Tobii Dynavox, I joined the Cloud Services team that operates the MyTobiiDynavox web application. As the software architect of the team, I'm responsible for setting a path for migrating the current solution based on .NET Framework towards one based on newer technologies and better development experience to introduce new features at a higher pace.

I'm also responsible for the design and initial implementation of new services and products that the Cloud Services team will offer to the rest of the organization. This includes but is not limited to a library of Terraform modules that can help the other teams adopt infrastructure as code best practices with reduced effort.

Tech used: .NET 6 and 8, ASP.NET Core, Azure, Azure DevOps, Terraform, SQL Server, Docker, NUnit, FakeItEasy, AutoFixture, Testcontainers.

### ROVIO – 03/2023 – 07/2023 – BACKEND ENGINEER (CONTRACTOR)

At Rovio, I joined the team working on a new game, Bad Piggies 2, and assisted them through the release process by setting up the different environments on AWS based on Kubernetes using Terraform, building and optimizing their CI/CD pipelines. I've also been part of the backend development team that is responsible for developing and maintaining the game servers. The team uses a platform built following the latest GitOps best practices.

Tech used: .NET 6 and 7, ASP.NET Core, Kubernetes, Helm, ArgoCD, Jenkins, Grafana, Prometheus, Terraform, Docker, XUnit, Serilog

### VÅRDEN – 12/2020 – 09/2022 – SOFTWARE ARCHITECT (CONTRACTOR)

My first assignment at Vården.se was about designing and developing a solution to facilitate the integration between Vården systems and the tens of booking providers present in the healthcare space in Sweden. The system helped Vården pass from 4 to 10 integrations in weeks rather than months.

The second assignment was the design and development of a stand-alone system that would be responsible for fetching, indexing and querying of healthcare providers and treatments via Elasticsearch.

I've also assisted the CTO in the process of recruiting developers and defined a long-term development plan for the whole system.

Tech used: .NET 5 and 6, ASP.NET Core (HTTP and GRPC), AWS DynamoDB, AWS Lambda, AWS Batch, AWS CloudWatch, AWS SNS, AWS CloudWatch Events, AWS ECR, AWS ECS Fargate, AWS CloudMap, AWS OpenSearch, AWS S3, AWS IAM, Logz.io, Tye, Docker, OpenTelemetry, Elasticsearch, NUnit, Moq, AutoFixture, Terraform, CircleCI, GitHub API

### EMG – 09/2008 – 11/2020

During my 12 years at EMG, I went from Junior developer to CTO passing by Software Developer, Software Architect and Team manager.

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## CTO – 07/2017 – 11/2020

As CTO of Educations Media Group, I was responsible for managing a department of roughly 25 people and its financial status, coordinating the design of new features and finding the most efficient way of implementing them, and collaborating to the long-term strategy of the whole company together with the rest of the management group.

My first task as first non-founding member of the board of directors was to solidify the budget for the whole tech department, take ownership of the hardware and license provisioning for the whole organization and provide the rest of the management group with a detailed report of the related expenditures for the whole organization.

Later, I restructured the whole tech department to better support the growing company and its several departments and provide solid career options to the most valued members of the tech department. I created a team of cross-team specialists that assist the whole department in their daily work. One of these new specialists was assigned to rationalize and optimize the AWS expenditures and managed to lower the costs by a third within the first month.

Finally, my department was able to prepare and enact a fully working and secure WFH policy within a week after the CEO gave us the mandate.

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## CO-TEAM MANAGER – 05/2014 – 07/2017

As co-Team Manager of the Core team at EMG, I was responsible for managing a team of roughly 15 developers that were divided into two units. I was fully responsible for one of the two units for anything that involved monthly evaluations and salary conversations. Together with the other co-manager, I was responsible for the recruitment and termination of employees and general planning of the team operations while collaborating with the several stakeholders within the organization.

Personally, I was responsible for running our LIA program with a vocational school. Specifically, I was responsible for presenting the company, interviewing, selecting, onboarding and training the interns during their period at EMG.

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## SOFTWARE ARCHITECT – 08/2010 – 11/2020

As Software Architect at EMG, I was responsible for designing and leading the development of new features as much as the renovation of existing ones. In this role I led the transition from ASP.NET WebForms to ASP.NET MVC, the adoption of Elasticsearch and message-based architectures using RabbitMQ as transport, and the adoption of best practices like unit testing, continuous integration and automated deploys.

Besides the strictly technical aspects of the role, I was responsible for leading the team into adopting new technologies and general best practices.

I achieved that by working firsthand on the first prototypes or even production-grade projects and then hosting a series of knowledge sharing sessions where said technologies were explained and introduced to the team. Alternatively, I used my spare time to develop open-source libraries or tools that aimed at leading developers towards the pit of success.

Finally, I was responsible for managing the upskilling budget for the whole department. I used this budget to organize in-house training courses for the whole team to help the team quickly adopt technologies that we felt we wanted to start using but didn't have any strong experience within the team to tap into.

Tech: .NET Framework, .NET Core, ASP.NET, ASP.NET MVC, ASP.NET Core, Microsoft SQL Server, Entity Framework, Entity Framework Core, Elasticsearch, TeamCity, AppVeyor, Octopus Deploy, RabbitMQ, Redis, Docker, AWS EC2, AWS RDS, AWS DynamoDB, AWS S3, AWS CloudFront, AWS ECR, AWS ECS, AWS IAM, AWS VPC, AWS SNS, AWS SQS, AWS CloudWatch, AWS AutoScaling, AWS ElastiCache, AWS Lambda, AWS Batch, AWS CloudFormation, NUnit, AutoFixture, Moq

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## SOFTWARE DEVELOPER – 09/2008 – 08/2010

As part of the development team, I was responsible for designing, developing and deliver improvements over existing parts of the system or of total new areas.

Tech: .NET Framework, ASP.NET, ASP.NET WebForms, Microsoft SQL Server

## PERSONAL PROJECTS

As a .NET enthusiast, I always try to give my contribution to other developers by creating tools to improve their work. All my contributions are open-source projects and, whenever possible, I package them so that developers can easily import them into their projects.

In addition, I like to browse Q&A sites like StackOverflow and Reddit and, whenever possible, offer my expertise to help other developers.

Below are some of my most relevant open-source projects (projects still in preview are not tested for production usage)

### AWS LAMBDA SHARP TEMPLATE

AWS LambdaSharp Template is a “dotnet new” template that helps create AWS Lambda function handlers with support for dependency injection, configuration and logging in a more structured way.

<https://github.com/Kralizek/AWSLambdaSharpTemplate>

Tech: AWS Lambda, GitHub, NuGet, NUnit, AutoFixture, Moq, AppVeyor

### AWS SECRETS MANAGER CONFIGURATION EXTENSIONS

AWS SecretsManager Configuration Extensions is a helping library allowing a developer to quickly add AWS SecretsManagers as a source for configuration settings in applications using configuration infrastructure created for .NET Core applications.

<https://github.com/Kralizek/AWSSecretsManagerConfigurationExtensions>

Tech: AWS SecretsManager, GitHub, NuGet, NUnit, AutoFixture, Moq, AppVeyor

### NYBUS

Nybus is an application framework that allows you to build message-based applications. Currently it only supports RabbitMQ as message-broker, but the plan is to extend it so that it can use cloud-technologies such as AWS SQS and SNS to deliver messages to the different registered handlers.

It is fully implemented in .NET Standard so that it can be used in any compatible runtime, being it a full-blown Windows Server to a tiny AWS Lambda runtime.

The reason behind this project was the need for a framework with a very quick API so to minimize the time to market.

<https://github.com/Nybus-project>

Tech: RabbitMQ, GitHub, NuGet, NUnit, AutoFixture, Moq, AppVeyor