



MARTORANA Marco

Team Lead | Senior Engineer | Teacher

With over 15+ years of experience, I am both a Computer Science Teacher and a seasoned Senior Software Engineer. Holding degrees in Computer Engineering and Clinical Engineering, my expertise spans a diverse range of sectors.

I joined ELCA in September 2023 as Senior Software Developer for the new Service Center in Palermo (Italy).

During my previous experiences, I was involved in diverse projects across multiple fields, including European R&D, **financial accounting**, **health**, **gambling**, and **energy**. These roles allowed me to develop strong relationships with customers, collaborating with clients and stakeholders to translate business needs into practical and reliable technical solutions.

I actively work in the design and development fields for web applications using **Java** technology stack on back-end side and **Angular** for the front-end.

As a team leader, I oversee team activities, onboard and coach new developers, and ensure that client requirements are accurately implemented. Working for several years with the SCRUM agile methodology, I am **Scrum Master Certified**. I have high problem-solving skills, leveraging strong collaboration and effective stakeholder engagement.

I take advantage of my training and coaching competencies to teach Java object-oriented programming and Angular, as well as setting up the ELCAcademy for the Palermo Service Center.

Projects

IRU – Driver Exam Tool

IRU World Transportation Organization

02.2025 - today

Position: Frontend Team Lead

Context: This web application enables professional drivers - such as truck and bus operators - to complete mandatory certification exams online. The platform ensures a secure, flexible, and accessible examination experience, tailored to specific companies and countries. Candidates access the exam using a one-time access code via company-specific URLs, each with a default language setting. The platform supports language selection and dynamic switching during the exam, enabling a more personalized and inclusive experience. The system also includes pictures and video questions, allowing candidates to rewatch content when needed.

Activities:

- Frontend Architecture & Development: Development of user-friendly, responsive single-page applications (SPAs) using Angular 19, ensuring a modern, seamless user experience across multiple devices
- Team Leading & Mentoring: Leading the frontend team, mentoring junior developers and providing technical guidance, fostering their growth and ensuring code quality through code reviews.
- Analyze customer requests (new features and change requests): analyze requests, define technical solutions, provide workload estimations.

Technologies: Angular 19, Tailwind, HTML/CSS, Node, Swagger, OpenAPI, Cypress, Storybook, Github, Jasmine/karma

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SAC - OHRS2

Schweizer Alpen-Club SAC

09.2023 – 01.2025

Position: Senior Software Engineer | Frontend Team Lead

Context: The New Reservation System (OHRS2) is a joint project of the Alpine Clubs from Switzerland, Germany, Austria, Slovenia and the Italian South Tyrol. The OHRS2 modern platform provides a unified experience to mountains lovers to book their accommodation and is an essential tool for the hut wardens to manage in real-time their hut occupation and optimize the needed stocks to prepare the required meals.

Activities:

- Frontend Architecture & Development: Leading the design and development of user-friendly, responsive single-page applications (SPAs) using Angular 16, ensuring a modern, seamless user experience across multiple devices.
- Backend Integration & API Management: Integrated the frontend with backend Java Spring services through RESTful APIs, ensuring reliable data flow and efficient communication between systems.
- Providing technical support and troubleshooting issues, ensuring high availability and reliability of the application.
- Creating and maintaining comprehensive code documentation.
- Active collaboration with the architect to set up the architecture of the frontend part of the project.
- Handling of Jira: sprint planning, tasks assignment and daily review
- Performance & Reliability: Delivered high-performance, reliable systems by providing ongoing technical support and troubleshooting critical issues, ensuring high availability for hut administrators.
- Team Leading & Mentoring: Leading the frontend team, mentoring junior developers and providing technical guidance, fostering their growth and ensuring code quality through thorough code reviews.
- Analyze customer requests (new features and change requests): analyze requests, define technical solutions, provide workload estimations.

Technologies: OKD, Bitbucket, SonarQube, Azure, Angular 16, Angular material, HTML, CSS, Node, Spring/Java, Jenkins, Swagger, Postman, Cypress, Jest, Github, Jenkins

ELCAdeemy Training Program

ELCA

12.2023 - 03.2024

Position: Trainer | Teacher

Context: ELCAdeemy was a training program for new joiners, designed to familiarize them with ELCA's Way of Work (WoW). It was structured into a series of sprints, each aimed at facilitating focused learning and hands-on experience. Participants engaged in various activities, including structured lessons, practical exercises, and collaborative projects, all tailored to enhance their ICT development skills.

Activities:

- Design, Organization and Planning of the ELCAdeemy program for the new service center in Palermo (Italy).
- Developed a comprehensive Training Program, encompassing all necessary topics and materials for effective learning.

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- Conducted Training Courses to educate employees on various aspects relevant to their roles and responsibilities. Courses: JavaScript, HTML/CSS, Angular framework, OOP / Java, GIT.

Technologies: OOP, Java, HTML/CSS, Angular framework, GIT, clean code, ELCA tools (Agile, JIRA, Confluence)

Research & Development European Commission

10.2020 - 03.2022

Position: Architect | Senior Software Engineer

Context: Active contribution to 3 major projects:

- EU-funded project supporting the decision-making in URBAN transformation with the use of disruptive Technologies.
- Project related to a European initiative focusing on helping urban planners and policy makers harness the power of new technologies for more inclusive, evidence-based decisions.
- EU-funded project aiming to boost the use of EOSC (European open science cloud) by Public Authorities enabling innovation in the policy making sector.

Activities:

- Architecting Scalable Solutions: Led the design of robust, scalable software architecture to support EU funded goals.
- Integration of Disruptive Technologies: Facilitated the integration of cutting-edge technologies like cloud computing, data analytics, and workflow automation.
- Full-Stack Software Development: Developed and optimized critical features, leveraging modern frameworks and tool
- Technical Design & Documentation: Created comprehensive technical documentation for system components, emphasizing R&D innovation.
- Mentorship & Team Leadership: Guided and mentored junior developers.

Technologies: Language and tools: Eclipse, Visual Studio Code, Spring framework, Keycloak, Python, PostgreSQL, Angular 11, Apache Airflow, Presto db, Docker.

Exprivia - Conceptual Design project Enelgroup / Exprivia

09.2019 - 10.2020

Position: Senior Engineer | Team leader

Context: Developing of new features in the "Conceptual Design" project – A complex system for design and optimization of photovoltaic plants.

Activities:

- Developing of new feature
- Coaching of junior developer
- Project Team Lead

Technologies: Language and tools: Scrum, eclipse, IntelliJ, J2EE, Python, Oracle 11 DBMS, AWS Dynamo, AWS lambda, AWS Step function, Opentext AppWors.

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Arancia ICT - OSSC

Dedalus

12.2016 - 08.2019

- Position: Senior Software Engineer | Team leader
- Context: Development of new web application, "OsSC" project, about Clinical Trial management, using a complex software architecture.
- Activities:
- Technical analysis and estimation of new features
 - Management of team activities
 - Development of features full stack
 - Team lead project
 - Onboarding of new colleagues into the project
- Technologies: Eclipse, Tomcat 8.X, XML, XSD, Html, Bootstrap, AngularJS, JavaScript, Spring, BPS, Jasper Report, Oracle DB, Mongo DB

Reply - Bingo

Lottomatica - Reply

09.2015 - 11.2016

- Position: Senior Software Engineer
- Context: Development of new feature in web "Bingo Manager Tool", the bingo game configuration tool, using Spring and AngularJS.
Bingo Manager tool was a backend tool for configuration of bingo game used in the Lottomatica group.
- Activities:
- Development of product features
 - Improvement of core functionality
 - Managing the software release process
- Technologies: Languages and tools: Netbeans, Tomcat 7.X, XML, XSD, Html, Bootstrap, AngularJS, JavaScript, Spring, Jaxb, Json.

Reply - GlobalSportBetting

Lottomatica - Reply

11.2012 - 09.2015

- Position: Software Engineer
- Context: Porting of integration module "Touchbet" Adapter for live soccer events and communication with Wager Wise platform. Analysis and implementation of the Telebetting software, part of the gambling Wager Wise suite. ESB and logic-based message application through Oracle Service Bus.
- Activities:
- Development of new features
 - Improvement of core functionality
 - Managing the software release process in client's environments
- Technologies: Languages and tools: Eclipse, JBoss 6.3, Oracle DB, Hibernate, EJB3.X, LambdaJ, SoapUI, JMX Console, WSDL, Spring, Angular JS, Hibernate, Weblogic OSB

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Engineering projects: SICER, SDBE Engisud / Engineering group

01.2007 - 03.2011

Position: Software Engineer

Context: Specialized IT consulting on the SICER project. Web product for management of financial accounting for customer Regione Sicilia.
Specialized IT consulting on the SDBE (Sicilian Digital Business Ecosystem) project. A system based on a P2P network infrastructure aimed at describing companies' business and discovering other companies for new market opportunities.

Activities:

- Development of new feature
- Development of core functionality
- Development of Reports

Technologies: Eclipse 3.3, Tomcat 6, FADA, Ant, XML, XSLT, JAVA, JAVASCRIPT, JSP, SERVLET, JBOSS - RULES, Hibernate, Struts, XFuzzy, Jasper report, SQL

Education

Degree in computer engineering

1998 - 2006 - Università degli studi di Palermo - Italy

Post degree in clinical engineering

2012 - 2013 - Università degli studi di Firenze - Italy

English

Working level (B1-B2)

Italian

Mother tongue (C1-C2)

Certifications

- 05.2015: **Scrum Master Certified (SMC)** - *SCRUMstudy*

Training

Docker

Pluralsight - Docker for Web Developer

Kubernetes

Pluralsight - Kubernetes for Developers: Core Concepts

Competencies

Databases

Oracle DB, PostgreSQL, MySql

Tools

Subversion, Git, Visual Studio Code, Eclipse, Postman, Maven, SoapUI

Web

Javascript, Angular, Typescript, HTML

Software Engineering

OOP, UML, Java, J2EE, Spring framework, Web Services RESTful

Application Server

Jboss, Apache Tomcat, Weblogic

Project Management

Agile SCRUM

Testing

Junit, Jasmine/karma, Jest, Cypress, Storybook

UI

CSS, SCSS, Angular Material, Tailwind