

David Marabottini

Professional Profile

Senior Front-end Developer with a strong background in mathematics, data analysis, and machine learning.

Experience in modern React/TypeScript architectures, performance optimization, and data-driven systems.

Certified PSM I and PSM II, with solid SQL expertise.

Personal Projects

Web platform for scam reporting and detection

📅 12/2025 - ongoing

Web platform for spam email/SMS detection with React/TypeScript frontend and Python ML backend (Naive Bayes).

Technologies: React, TypeScript, Tanstack Query, SASS, Axios, Auth0, vitest, Python, Flask, scikit-learn, pandas, joblib.

[Frontend repository](#) - [Backend repository](#)

Hypercube Building Framework

📅 11/2025

Conceptual framework for team balance visualization and analysis.

[GitHub repository](#).

Machine Learning Study

📅 06/2025 - 08/2025

Advanced study of machine learning and data science in Python with predictive model development.

Libraries used: scikit-learn, imbalanced-learn, pandas, matplotlib, optuna.

[GitHub repository](#).

Work experiences

Administrative Assistant

🏢 MPL 📅 05/2025 - ongoing

Technical and logistical support and client acquisition for family business

Front-end Developer

🏢 Key2Business 📅 06/2019-05/2025

Front-end development for enterprise web portals in banking, media, and retail sectors.

Focus on performance, SEO, and React/Next.js architectures within Agile teams.

Technologies: Reactjs, Nextjs, Redux/saga/selectors, jest, storybook, AMP, SCSS, Typescript, Material UI, styled components, Recoil.

Methodologies: Scrum, Kanban, Waterfall

Tools: Visual Studio Code, Git, Jira, Jenkins.

Front-end Developer

🏢 Blazar 📅 02/2018-05/2019

Front-end development on various management applications in banking and energy sectors within dynamic and often agile environments.

Technologies: React.js, SCSS, JavaScript

Methodologies: Scrum

Tools: Jira, Trello, Git, Gitlab, Visual Studio Code

PHP Developer

🏢 JigGiga 📅 04/2017 - 12/2017

Development of a portal in PHP5, MySQL, JQuery, Bootstrap for managing black boxes for car fleets.

Technologies: PHP5, MySQL, JQuery, Bootstrap

Fullstack Developer

🏢 Modis/Business Changers 📅 01/2016 - 04/2017

Frontend development, procedures, and algorithms for regional public funding application forms.

Technologies: JavaScript, Oracle V9, Apache FOP

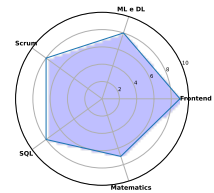
SQL Expert and Reporting Specialist

🏢 Runtime Solutions 📅 01/2015 - 10/2015

Creation of queries, reports, and layouts in Crystal Report based on SAP document platforms for various clients.

Technologies: Crystal Report, SQL Server, SAP

Expertise



Certificates

☆ PSM II - Professional Scrum Master II

☆ PSM I - Professional Scrum Master I

Hard skills

★ Machine learning

[Apprendimento supervisionato](#)

[Apprendimento non supervisionato](#)

[Metamodelli](#)

[Gridsearch/randomizedsearch](#)

[Gestione dati sbilanciati](#)

★ Data

[Python](#)

[R](#)

[Notebook Jupyter](#)

[Machine Learning](#)

[Power Query](#)

[Power BI](#)

[Excel/Power pivot/DAX](#)

★ database

[SQL](#)

[SQL Oracle](#)

[MySQL](#)

[Ms SQL](#)

★ frontend

[JavaScript](#)

[TypeScript](#)

[React, Next.js](#)

[Redux/saga, redux toolkit](#)

[SEO, Web vitals, accessibilità](#)

[HTML5/CSS3](#)

[Bootstrap](#)

[JQuery](#)

★ scrum

[Scrum](#)

★ altro

Pacchetto office 365

XSL-FO

figma, Miro

Soft skills

Teamwork

Problem solving

Lateral thinking

External links

🔗 [linkedin](#)

🔗 [R Analysis](#)

🔗 [Stroke predictive models](#)

Languages

Italian



English



.NET Developer

🏢 Crenway Srl 📅 07/2014 - 11/2014

Development and monitoring of the “Punti Petalo” startup portal.

Technologies: ASP.NET Framework, C#, JavaScript, SQL (MS SQL Server), LINQ, Web services, Visual Studio, Team Foundation, Team Explorer, Google Analytics, Windows Azure

Education

Cybersecurity

📖 AKG 📅 21/10/2025 - 31/10/2025

Intensive course on cybersecurity principles, data protection, and digital threat defense.

Advanced Excel and Power BI

📖 AKG 📅 01/10/2025 - 20/10/2025

Advanced training in data analysis, automation, interactive dashboards, and modeling with DAX and Power Query.

Machine Learning and Data Science in Python: Complete Course

📖 Udemy 📅 06/2025 - 08/2025

Advanced training in predictive models, ML pipelines, and automated algorithm optimization.

English Lessons

📖 Preply 📅 02/2025 - ongoing

English conversation practice to improve fluency and professional communication.

Computer and Information Engineering (not completed)

📖 University of Siena 📅 2010 - 2013

Engineering studies focused on programming, software architectures, networks, and mathematical foundations.

Technical Diploma in Programming and Accounting

📖 ITCG CA Dalla Chiesa 📅 2009

Technical education in programming, SQL, applied mathematics, and business disciplines.

Modular CV Rendering Engine & CI/CD Pipeline

📅 09/2025 - ongoing

Modular XSLT/XSL-FO engine for automated PDF CV generation with multi-language, multi-profile and multi-template support and CI/CD.

[GitHub repository](#)

Theorem on Triangular Relationship Between Different Means

📅 09/2025

Proof of a mathematical relationship between arithmetic mean, standard deviation, and geometric mean.

Libraries used: Python sympy.

[Proof notebook](#).

Personal Conjecture on the Tower of Hanoi with p Pegs

📅 06/2025

Development of a mathematical conjecture for the generalization of the Tower of Hanoi with multiple pegs.

Skills and technologies used: Combinatorial analysis, pattern research, algorithms, Wolfram Alpha, JavaScript, numerical series analysis.

[Zenodo repository](#).

The undersigned is aware that, pursuant to Article 26 of Law 15/66, false statements, falsifying documents, and the use of false documents are punishable under the Criminal Code and special laws. Furthermore, the undersigned authorizes the processing of personal data, in accordance with Legislative Decree 196/2003.

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