

# 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.

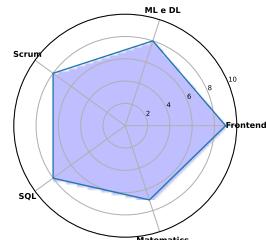
**Technologies:** Crystal Report, SQL Server, SAP

### .NET Developer

⌚ Crenway Srl ⌚ 07/2014 - 11/2014

Development and monitoring of the "Punti Petalo" startup portal.

## 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

Suite Atlassian (Jira, Confluence ecc...)

## 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](#).

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### ★ 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

