

# Mahdi Baccara

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 🔄 Baccara-Mahdi-Dev

## Work Experience

- Akronos S.R.L. (per Siemens)**, Full-stack Developer Genoa, Italy  
 Consulting activities at Siemens, focused on full-stack development, performance testing, and CI/CD pipeline management in an enterprise environment. June 2024 – present
- Integration and development of CI/CD pipelines on **GitLab**, managing build, test, and deploy processes.
  - Development and improvement of automated performance tests using **K6**, with result analysis and report generation.
  - Extensive use of the **NATS** protocol and its client library for asynchronous messaging systems.
  - Refactoring and updating **.NET** and **C#** components, adapting tests and pipelines.
  - Creation of custom tools in **Node.js** for automatic processing of test results.
  - Containerization activities and image management with **Docker**, control and validation of public and golden images.
  - Monitoring tests via **InfluxDB** and **Grafana**, creating dedicated dashboards.
  - Introduction and adaptation of pipelines from other systems (e.g., **TFS**) to the **GitLab** infrastructure.
- Algowatt S.p.A.**, Full-stack Developer Genoa, Italy  
July 2023 – June 2024
- Development and maintenance of software with **Angular**, **C#**, **ASP.NET**, **.NET**, and **Oracle DB**.
  - Contributing to project documentation.
  - Creation of **CMake** scripts and **C++** programs for refactoring **Matlab** software, with the support of AI **ChatGPT**.
  - Modernization of **C# .NET** software for Windows using **DevExpress** to create a full-stack application with **Angular** on the frontend and **.NET** on the backend.
  - Bug fixing and software testing.
  - Experience working with **API**.
- Boris Production**, Full-stack Developer Genoa, Italy  
July 2022 – July 2023
- Development of the new U.I. and U.X. for **indici.blablive** in **SCSS**, **PHP**, and **JavaScript**.
  - Development and maintenance of **PHP** code.
  - Testing and bug fixing.
  - Contributing to documentation.
  - Development of new and updated **WordPress** plugins in **PHP** and **React**.
  - Resolving tickets.
  - Experience working with **API**.
  - Creation of a web app for project management, stack: **Laravel 10**, **TailwindCSS**, **AlpineJS**, **MySQL**.
- MyPass**, Full-stack Developer Genoa, Italy  
Aug 2021 – July 2022
- Development and maintenance of **RESTFUL APIs** based on the **Laravel (Lumen)** framework and **REST APIs** based on the **Restler** framework.
  - Contributing to documentation on the **Confluence** platform.
  - Testing and bug fixing.
  - Resolving tickets on **Trello** and **GitLab**.
  - Development of **PHP** scripts and **MySQL** queries aimed at managing large amounts of data, regularly executed via cron jobs.
  - Experience with **GitLab** and **CI/CD** pipelines.
  - Development of custom dashboards and tools in **PHP** and **React**.
  - Experience working with **API**, integrating with external web services including **XML**, **REST**, or **JSON**.
- 2Way Communication & Consulting**, Full-stack Developer Genoa, Italy  
Jan 2021 – Aug 2021
- Development and maintenance of web applications using **PHP** and **CodeIgniter** with MVC architecture.
  - Use of **MySQL** for managing relational databases.
  - Implementation of interactive features with **AJAX** and **jQuery**.
  - Creation and management of responsive user interfaces with **HTML**, **CSS**, and **Bootstrap 4**.
  - Drafting documentation for the usage of web apps.
  - Testing and bug fixing in the software.
  - Experience in using **API** for integration with other systems.
- Liguria Digitale**, Internship Genoa, Italy  
July 2023 – June 2024

- Development of **XML** web pages supported by **Bootstrap 4** and applications in **Java**, using the **Eclipse** programming environment.

## Education

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**B.D. University of Genoa**, Computer Science

Genoa, Italy  
Sept 2020 – present

**T-Dip Italo Calvino - Institute of Higher Education**, ITIS – Computer Science

Genoa, Italy  
Sept 2014 – June 2020

## Skills

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**Programming Languages:** C, C++, C#, Python, JavaScript, TypeScript, PHP, GO

**Web Development:** HTML5, CSS3, TailwindCSS, Bootstrap 4/5, Vue.js

**Frontend Frameworks:** React, Angular, JQuery

**Backend Frameworks:** Node.js, NestJS, Laravel, CodeIgniter, .NET, Lumen

**Database Technologies:** MySQL, PostgreSQL, OracleDB, MongoDB, Firebase

**Version Control:** Git, GitLab, GitHub

**DevOps Tools:** Docker, Kubernetes, Helm, SonarQube, GitLab CI/CD, K6, Grafana, InfluxDB

**Networking & Systems:** Linux (Ubuntu, Debian), Windows (7, 8, 10), macOS, Cisco networking (routers, switches)

**Software Development Tools:** Visual Studio Code, Eclipse, NetBeans, PHPStorm, Unity Game Engine, NotePad++, VIM, CygWin, PHPMyAdmin

**Cloud & Virtualization:** Oracle VM VirtualBox, VMware, Hyper-V, Docker

**Agile Methodologies:** Scrum, SAFE Agile, Waterfall

**Project Management Tools:** Jira, Confluence, Polarion, Atlassian Suite

**Data Serialization:** JSON, XML, YAML

**Game Development:** Unity Game Engine

**Security & Code Quality:** Secure coding practices, SonarQube

**Operating Systems:** Linux (Ubuntu, Debian), Windows (7, 8, 10), macOS

**Soft Skills:** Communication, Teamwork, Problem-solving, Time management

**Languages:** *English* (C1), *Italian* (native)