

Marc Geremias Serra

marcgeremiasserra@gmail.com | linkedin.com/in/marcgermias | github.com/marcgeremias | marcgeremias.com

EXPERIENCE

Backend Engineer

April 2026 – Present

Telynet

Barcelona, Spain

- Designed, developed, and maintained RESTful APIs using the CodeIgniter PHP framework for enterprise CRM systems.
- Designed and validated Microsoft SQL Server database structures, ensuring data integrity, performance, and reliability through testing and optimization.

Backend Engineer

June 2023 – March 2026

iThinkUPC

Barcelona, Spain

- Developed backend features and custom plugins for high-traffic Moodle platforms using PHP, Mustache.js, and PostgreSQL, integrating Redis to improve system performance and scalability.
- Led the design and implementation of a CI/CD pipeline as part of my Final Degree Project, enabling automated migration of Moodle patches across versions, including validation through Behat functional tests executed in Docker environments with Selenium and Mink.
- Maintained and resolved technical incidents in production Moodle environments for major institutions such as UPC, ESADE, and BSM, working in a team of 12 engineers under a ticket-based workflow.

OS Administration Teaching Assistant

September 2023 – May 2024

La Salle University

Barcelona, Spain

- Contributed to course improvement by researching and updating learning materials, including the integration of Docker and modern system administration concepts.

EDUCATION

La Salle University

Barcelona, Spain

Bachelor's Degree in Computer Engineering

September 2019 – June 2024

HONORS

Academic Distinctions — Computer Engineering

La Salle University

- Digital Systems and Microprocessors
- Final Degree Project: *"Integration of a Self-Migration System in Moodle"*.
- Departmental Collaboration I (System Design and Administration) – Contributed to course improvement through Docker-related content integration and modernization of materials.

CERTIFICATIONS

CCNA: Introduction to Networks

Barcelona, Spain

Cisco Networking Academy

Issued September 2021

Docker Foundations Professional Certificate

Docker, Inc.

Issued October 2024

MY PROJECTS

Final Degree Project: Moodle Self-Migration System | *PHP, CI/CD, Docker, Behat, Selenium*

2024

- Collaborated with iThinkUPC to solve migration challenges on customized Moodle platforms.
- Built a CI/CD pipeline with automated functional tests to ensure update integrity.
- Defined branching guidelines and validated the system with real cases, optimizing migration cost and reliability.

OpenEvents | *Vue, REST API, HTML, JavaScript, CSS*

2022

- Developed a web application using Vue and REST web services to manage various types of events efficiently.

TECHNICAL SKILLS

Developer Tools: Git, Docker, Visual Studio Code, JetBrains IDEs, Postman, PostgreSQL

Programming Languages: PHP, JavaScript, HTML/CSS, Java, SQL, Bash, C, Python, Laravel

Other Technologies: Redis, Selenium, MySQL, Behat, Jira, GitLab, AWS (ECS, CloudWatch, S3)

LANGUAGES

English: C1 (Professional working proficiency, EOI Certificate)

Spanish: Native

Catalan: Native