Manuel Rodríguez Camacho

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Professional Summary

Software Development Engineer and Technical Leader with experience in full-stack development, microservices architecture, cloud-ready applications, and cross-functional team collaboration. Skilled in designing scalable systems, implementing best development practices, and guiding engineering teams toward efficient and timely delivery.

Technical Skills

Languages: C#, C, JS, CSS, PHP, Python, VHDL
Architectures: MVC, MVVM, Microservices, Legacy Layered application
Databases: SQL Server, Azure SQL, MySQL

Frameworks: .NET Core, MAUI, Razor Pages
Tools: Git, Azure DevOps, Docker, Ansible, KVM, WSL2, VPN, SCRUM
Cloud: Azure (App Services, SQL, Pipelines), AWS

Professional Experience

Software Developer / Technical Leader   **Cryoinfra — 2019 to 2025**

- Led multidisciplinary SCRUM-based teams, ensuring timely delivery of high-impact software solutions.
- Designed, implemented, and maintained a microservices-based architecture secured with JWT authentication.
- Developed scalable web and mobile applications using Razor Pages, .NET Core, and .NET MAUI.
- Integrated and orchestrated multiple internal and external APIs for data synchronization across systems.
- Defined technical documentation standards, including architecture diagrams, workflows, and coding guidelines.
- Mentored junior developers, conducted code reviews, and promoted best practices in software development.
- Provided user support and technical training for internal tools and enterprise applications.

Laboratory Academic   **Universidad Autónoma Metropolitana - Azcapotzalco — 2014 to 2017**

- Developed and maintained departmental web site and applications using PHP, JavaScript, and MySQL.
- Administered Linux and Windows servers, as well as departmental network infrastructure.
- Maintained and supported Systems Department classrooms and laboratories.
- Contributed to teaching and research activities by assisting faculty and supporting academic projects.

Junior Software Developer   **Cryoinfra — 2012 to 2014**

- Developed monolithic web and desktop applications using .NET Framework and SQL Server.
- Collaborated closely with QA and product teams to ensure high-quality deliverables.
- Diagnosed and resolved complex issues in third-party components (e.g., Telerik).
- Optimized database queries, improving application performance and reliability.
- Provided help desk and technical support for internal users.

Education

- **Master of Computer Science** — Centro de Investigación y Estudios Avanzados (CINVESTAV) 2016 to 2018
- **Computer Engineering** — Universidad Autónoma Metropolitana Azcapotzalco (UAM-A)   2009 to 2014
- **Computer Technician** — Centro de Estudios Computacionales del Valle de México (CECOVAM) 2006 to 2008

Selected Projects

- **HookHubNet** — Secure TCP tunneling over WebSockets with centralized hub and dynamic port forwarding.

- **Cryoinfra Platforms** — Web and mobile systems (.NET Core, .NET MAUI) for logistics, production monitoring, and internal operations.

- **Cryoinfra Architecture** — Defined layered architecture, service contracts, and development standards.

- **Help Desk System** — Internal ticketing platform with AI-assisted support (Watson AI).

- **Hard.Core** — Modular enterprise framework accelerating application development.

- **Private CI/CD** — Self-hosted pipelines using Jenkins, Docker, and Ansible.

- **HookHub** — Real-time messaging hub using ASP.NET Core and SignalR.

- **Midori64 / Midori128** — Lightweight cryptographic block cipher implementations.

Certifications and Licenses

- **Agile & DevOps**: Scrum Master (SMPC®), Scrum Foundation (SFPC™), DevOps Essentials (DEPC®) — CertiProf; Agile PM — Atlassian; Design Thinking, Agile Explorer — IBM.

- **Cloud & Infrastructure**: AWS Cloud Practitioner — AWS; Docker Foundations — Docker; Ubuntu Linux — Canonical; DevSecOps Foundations (2022).

- **Software & Architecture**: Microservices Foundations — Kong; Web Development — IBM; GitHub & Copilot Career Essentials.

- **Security & Testing**: Azure AI Essentials, Security Essentials — Microsoft; Applied Cryptography — Infosec; Software Testing & Test Automation — LambdaTest.

- **Academic Training**: Application Servers — UAM; Scrum Master Diploma — Praxis; Scrum Fundamentals — KZI-Kaizenia; Lifelong Learning — CertiProf.

Academic Activities, Conferences & Honors

International Conferences

- **LatinCrypt 2017** — Fifth International Conference on Cryptology and Information Security in Latin America. University of Havana, Cuba (Sept. 2017). Certificate of Participation.

Research Presentations

- *"Analysis of an Embedded Web Interface on an Arduino Platform and a Custom-Built Device."* 3rd Research Conference of the Systems Department, Universidad Autónoma Metropolitana (July 2014).

Programming Competitions & Honors

- **ACM-ICPC Mexico & Central America Regional Contest** — Honorable Mention ITESM (2013).

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- **IV Annual Programming Contest "Dennis M. Ritchie"** — Second Place IPN–ESCOM (2012).

ACM Competitive Programming Training

- ACM Student Chapter — ITESM Mexico City (2011)

- ACM Student Chapter — BUAP Puebla (2012)

- ACM Student Chapter — ESCOM-IPN Mexico City (2013)