

## JAYRO GUERREROS ECHIA

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Innovative mechatronic engineer and project leader with 8+ years of experience designing, developing, and deploying high-impact web and mobile applications. Proven expertise in .NET, Angular, Flutter, and cloud platforms (AWS/GCP), with a track record of automating processes, reducing costs by 40-70%, and improving user experience.

Passionate about Agile-driven development, mentoring teams, and transforming business needs into scalable digital solutions. Recognized as a top-performing instructor in SQL, BI, and cloud technologies, bridging the gap between education and industry.

### EDUCATION:

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05/2021 - 12/2022

#### **CENTRUM PUCP**

Master of Business Administration (MBA)

03/2012 - 12/2019

#### **PONTIFICIA UNIVERSIDAD CATÓLICA DEL PERÚ**

Bachelor of Science in Mechatronic Engineering

### WORK EXPERIENCE:

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04/2024 – now

#### **FULL STACK ANALYST / DEVELOPER – DERRAMA MAGISTERIAL**

- Designed and implemented the workflow architecture for web applications, covering end-to-end development from user story creation to UI/UX design and full-stack deployment using .NET 8.0, Angular 19, Oracle 19c, and MySQL 8.
- Led the development of 6 internal web applications for cross-departmental use, automating manual processes and reducing repetitive tasks by up to 70%, significantly improving operational efficiency.
- Collaborated with stakeholders to translate business requirements into scalable technical solutions, ensuring seamless integration with existing systems.
- Applied Agile methodologies to streamline development cycles, delivering high-quality software aligned with corporate objectives.

10/2023 – 05/2024

### **LEAD ANALYST / FULL-STACK DEVELOPER - CONTRALORÍA**

- Led a development team in designing, building, and deploying web applications using Angular 18, .NET 8, and Oracle 19c, following Agile (SCRUM) methodologies to ensure timely deliverables.
- Established the project workflow, including sprint planning, progress reporting, and stakeholder presentations to maintain alignment with business goals.
- Automated critical financial processes, reducing manual workload for monthly and annual accountability reporting by 50% across all state entities.
- Enhanced data reliability and transparency in financial reporting, ensuring compliance and audit readiness while minimizing human error.

08/2022 – 01/2023

### **SOLUTIONS ADVISOR / FULL-STACK DEVELOPER - CENTRUM**

- Spearheaded the end-to-end design and development of a centralized management system for CENTRUM PUCP Business School, facilitating seamless control of alumni data, job postings, and student support services.
- Led stakeholder engagement, translating business needs into technical requirements, and established a phased delivery plan using Angular 18, .NET 8, and MySQL 8.
- Revamped the alumni portal's user experience, boosting accessibility to job boards, satisfaction surveys, and student aid resources by 70%, driving higher engagement and institutional trust.
- Secured university-funded MBA sponsorship as recognition for the system's transformative impact on operational efficiency and alumni relations.

#### **Key Highlights:**

- **Ownership:** From zero-to-production development in an academic ecosystem.
- **Impact:** Direct correlation between UX improvements and institutional ROI (evidenced by MBA support).
- **Tech Leadership:** Bridged client-facing advisory and hands-on full-stack development.

01/2023 – actual

### **SOLUTIONS ADVISOR / MOBILE DEVELOPER – COLEGIO DE ENFERMEROS DEL PERÚ**

- Designed and developed a cross-platform mobile application from scratch to address the Colegio de Enfermeros del Perú's need for efficient member management, using Flutter for optimal performance and scalability.

- Collaborated closely with stakeholders to understand pain points, define requirements, and deliver a user-friendly solution tailored to their operational workflow.
- Troubleshoot and resolved technical challenges, ensuring smooth functionality and a seamless experience for all users.
- Achieved strong user adoption, with the app remaining actively used and well-received by the engineering community, demonstrating its long-term value.

#### **Key Contributions:**

- **End-to-End Ownership:** Led the full development lifecycle—from concept to deployment—for a mission-critical organizational tool.
- **User-Centric Approach:** Delivered a solution that met real-world needs, resulting in sustained engagement.
- **Technical Agility:** Leveraged Flutter to build a performant, multi-platform application with minimal maintenance overhead.

04/2020 – 03/2023

#### **SYSTEMS ANALYST / HEALTHCARE TECH LEAD – CLÍNICA RICARDO PALMA**

- Designed and implemented SIRADE, a digital solution to automate administrative workflows for the nursing department at Clínica Ricardo Palma, eliminating repetitive manual processes.
- Led a cross-functional team of 5 through the full project lifecycle—from requirements gathering to deployment—ensuring alignment with clinical operational needs.
- Drove cost optimization, reducing paper usage, labor hours, and associated expenses by 40% through process digitization.
- Enhanced efficiency by transitioning critical tasks (e.g., patient records, scheduling) to a centralized digital platform, minimizing errors and improving nurse productivity.

#### **Key Achievements:**

- **Operational Impact:** Directly improved resource allocation, allowing staff to focus on patient care rather than administrative tasks.
- **Leadership:** Orchestrated collaboration between technical and clinical teams to deliver a user-adopted solution.
- **Sustainability:** Significant reduction in paper waste supported the clinic's environmental and cost-saving initiatives.

09/2019 - Actual

#### **COMPUTER SCIENCE INSTRUCTOR / PROFESSOR - PUCP**

- Teach cutting-edge technology courses at the university level, specializing in SQL, Business Intelligence (BI), office productivity tools (Office Suite), and cloud platforms (Google Cloud Platform - GCP & Amazon Web Services - AWS).
- Design and deliver engaging curriculum, blending theoretical foundations with hands-on practical exercises to prepare students for real-world IT and data-driven roles.
- Mentor students on best practices in database management, data visualization, and cloud computing, fostering both technical and analytical skills.
- Recognized as a top-rated instructor by students and peers for clarity, expertise, and ability to simplify complex technical concepts.

#### Key Contributions:

- **Industry-Aligned Training:** Equip students with in-demand skills for careers in data analysis, cloud engineering, and business intelligence.
- **Student Success:** Consistently receive outstanding feedback for teaching effectiveness and mentorship.
- **Continuous Learning:** Stay updated with evolving cloud and data technologies to ensure curriculum relevance.

#### LANGUAGES:

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ENGLISH	<b>CENTRO DE IDIOMAS CATÓLICA DE LA PONTIFICIA UNIVERSIDAD CATÓLICA DEL PERÚ.</b> Advanced
PORTUGUESE	<b>CENTRO DE IDIOMAS CATÓLICA DE LA PONTIFICIA UNIVERSIDAD CATÓLICA DEL PERÚ.</b> Advanced

#### SKILLS:

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##### Technical Skills:

- **Full-Stack Development:** .NET 8, Angular 18/19, Flutter, SQL (Oracle, MySQL)
- **Cloud Platforms:** Google Cloud (GCP), AWS (Amazon Web Services)
- **Database Management:** Oracle 19c, MySQL 8, BI Tools
- **Agile Methodologies:** SCRUM, Sprint Planning, User Story Mapping
- **DevOps & Deployment:** CI/CD, Cross-Platform Development (Mobile/Web)

- **Data & Analytics:** Business Intelligence (BI), Data Visualization

**Project & Leadership Skills:**

- End-to-End Project Ownership (Design to Deployment)
- Stakeholder Management & Requirements Gathering
- Team Leadership (5+ members) & Cross-Functional Collaboration
- Process Automation & Digital Transformation
- Cost Optimization & Operational Efficiency

**Teaching & Communication:**

- Curriculum Development (SQL, BI, Cloud Computing)
- Technical Training & Mentorship
- Public Speaking & Presentation Skills
- Bilingual (Spanish/English)