Xavier Berga

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WORK EXPERIENCE

🏢 *Innova OX* – Huesca, Spain

City: Huesca | **Country:** Spain

Founding Partner and Project Manager

[01/09/2025 – Current]

1. Define the digital strategy aligned with business objectives and industry regulations.
2. Lead the development of applications to optimize production, logistics, and quality processes.
3. Oversee the integration of IoT sensors to capture real-time data in production plants.
4. Manage automation projects with robots to improve efficiency and reduce human errors.
5. Evaluate and select technologies that drive the company's digital transformation.
6. Collaborate with technical and operational departments to adapt IT solutions to their needs.

🏢 *AgroMind* – Zaragoza, Spain

City: Zaragoza | **Country:** Spain

IoT and Artificial Intelligence Engineer

[01/09/2025 – Current]

1. Manage the implementation and training of LLM models, tailored to the language and needs of the agricultural sector.
2. Build infrastructure to deploy and scale AI models in the cloud or hybrid environments.
3. Design and implement a robust authentication system with user and role management.
4. Develop an intuitive interface to facilitate access to AI and digital services.
5. Ensure system interoperability, enabling future integrations with agricultural sensors or APIs.
6. Design, develop, and deploy ESP32-based electronic systems for reading agricultural sensor data.
7. Implement IoT communication architectures (MQTT) for reliable data collection in the field.
8. Integrate AI LLM queries with sensor data to ensure accurate recommendations and intelligent decision-making for farmers.
9. Validate and deploy prototypes in real-world environments, ensuring robustness, security, and scalability of electronic and AI systems.

🏢 *Alimentando con Ciencia* – Zaragoza, Spain

City: Zaragoza | **Country:** Spain

Application Developer for the Food Industry

[15/01/2024 – Current]

1. Quality monitoring interfaces development: design and programming of interactive web dashboards that allow users to visualize the status of quality control processes in real time.
2. Integration of sensors and real-time data: implementation of connections via APIs and sockets to receive and process critical data that ensure safe conditions in the food supply chain.
3. Food traceability with Blockchain: design and development of an application based on blockchain technology to guarantee transparency, integrity, and reliability of information at every stage of the food chain, from producer to end consumer.

4. Smart form design: creation of digital forms to record, validate, and track each phase of the supply chain, with a focus on usability and error reduction.
5. Advanced authentication and access control: implementation of a robust system for user and role management (operators, supervisors, auditors), reinforcing security and regulatory compliance.
6. Comprehensive data validation: development of frontend and backend validations to ensure the quality, consistency, and completeness of user-entered data.
7. Automated audit reporting: generation of customized reports in PDF and CSV formats, streamlining inspection processes and supporting compliance with national and international regulations.

⌸ *IFR Group*

Microsoft Dynamics AX/365 Developer

[01/03/2021 – Current]

1. Develop and maintain customizations in X++ and .NET based on client requirements.
2. Migrate functionality and data from AX 2009/2012 to Dynamics 365 Finance & Operations.
3. Design and implement integrations with other systems using web services, OData, and APIs.
4. Manage releases and deployments using tools such as LCS and DevOps.
5. Collaborate with functional analysts to translate requirements into technical solutions.
6. Lead code reviews and development standards, ensuring best practices.
7. Resolve complex issues and perform debugging in production and test environments.
8. Document developments and configurations, facilitating maintenance and future enhancements.

⌸ *IFR Group*

Developer Internship Contract

[01/12/2020 – 01/03/2021]

1. Assist with basic development tasks under supervision, using X++ and Dynamics environments.
2. Collaborate in functional and technical testing, documenting results and errors found.
3. Learn the structure and modules of AX 2009/2012 and Dynamics 365 Finance & Operations.
4. Perform minor customizations and configurations in test environments.
5. Assist in documenting processes and developments, following internal standards.
6. Investigate new features or technical issues, proposing possible solutions.
7. Collaborate in the creation of basic reports using integrated tools such as SSRS.

EDUCATION AND TRAINING

BS in Computer Science

Universitat de Lleida [01/09/2016 – 01/07/2020]

Address: Calle de Jaume II, 69, 25001 Lleida (Spain) | **Field(s) of study:** Infomation Technologies | **Thesis:** Design and implementation of a decentralized application for the secure management of medical data

During my studies in Computer Engineering with a minor in Information Technology, I acquired solid knowledge in key areas such as mathematics, programming, data structures, databases, operating systems, and computer networks. I trained in software development, algorithm analysis, computer architecture, and computer security. I also studied computer systems design and management, artificial intelligence, and agile development methodologies, which allowed me to develop a comprehensive view of applied computing.
By specializing in Information Technology, I delved into IT systems and services administration, technological infrastructure management, virtualization, and cloud computing. I learned to plan, implement, and evaluate technological solutions aligned with business objectives, integrating different platforms and services. I also strengthened my skills in project management, teamwork, and effective communication, which allows me to perform strategically in organizational environments.

PROJECTS

[08/2024 – 09/2024]
HomeLab Server with new and used hardware parts
1. Setup and configuration of a personal server (HomeLab) using TrueNAS as the operating system, combining both new and repurposed hardware.
2. Main specifications: Intel Xeon E5-2680V4 CPU (14C/28T), 64GB DDR3 RAM, (24 TB HDD + 1 TB NVMe) storage in RAID6 pools, and dual NVIDIA RTX 3090 GPUs for experimentation with LLM models.
3. Hosting multiple open-source applications deployed in Docker, such as NextCloud, HomeAssistant, AdGuard, n8n, MQTT Eclipse, among others, providing the community with free credentials for testing in development environments.
4. Focus on collaboration and shared learning, offering an accessible ecosystem to experiment with modern automation, networking, and security tools.

HONOURS AND AWARDS

[12/12/2024] Generando Futuro
Finalist category in the 12th edition of Generando Futuro The Generando Futuro Awards are an initiative of the altruistic association of the same name, made up of entrepreneurs and professionals from the private sector in Aragón. Their purpose is to support entrepreneurs with viable business projects, providing them free of charge during their first year with the resources, services, and guidance needed to launch their activity. Each member contributes their expertise and professional services, creating a comprehensive support ecosystem.We applied for these awards as Alimentando con Ciencia, a startup whose business model focuses on developing web applications to digitize and modernize the Food Industry sector.

[25/06/2020] Universitat de Lleida
Excellence Award for Final Project (Development of a decentralized application for the secure management of medical data) Backend code: https://github.com/rootkit0/Decentralized-HealthCareSystem-BackendFrontend code: https://github.com/rootkit0/Decentralized-HealthCareSystem-Frontend

LANGUAGE SKILLS

Mother tongue(s): Catalan | Spanish

Other language(s):
English
LISTENING C1 **READING** C1 **WRITING** C1
SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

DRIVING LICENCE

Driving Licence: B

JOB-RELATED SKILLS

Skills

I bring a strategic vision that enables me to align technology with business objectives, identifying risks and opportunities to make informed, high-impact decisions. I am recognized for being proactive in problem-solving, consistently delivering practical, efficient, and sustainable solutions.

I excel at managing time and priorities effectively, ensuring goals are met within established deadlines. In addition, I have experience leading change management and digital transformation processes, driving innovation, operational efficiency, and organizational competitiveness.

These competencies, combined with a mindset focused on continuous improvement and the creation of tangible value, allow me to make a meaningful contribution to the growth and success of any organization, while effectively meeting the demands of today's dynamic labor market.

COMPUTER SCIENCE RELATED SKILLS

Computer Science skills

Programming languages: C, C++, Python, X++, .NET, Java, SQL, and Solidity.

Web programming languages: HTML, CSS, JavaScript, and TypeScript.

Popular web frameworks: Angular, React, Flutter, ExpressJS (API), and Spring (API).

Popular database management systems: mySQL, PostgreSQL, and Oracle.

Administration, installation, and maintenance of IT equipment and networks.

Extensive experience with the Linux operating system (as the primary operating system), as well as macOS, Windows, and Windows Server.

I am a hardware enthusiast and constantly read and learn about new architectures and technologies.

I also have advanced knowledge of Blockchain, which allows me to develop systems using the Solidity language.

Recently, I have also specialized in the use of AI and the deployment and training of local LLMs on my own local server.

Knowledge of computer security

Threat and vulnerability identification.

Intrusion mitigation using scripts and security patches.

Knowledge of the behavior of different types of viruses.

Configuration of firewall and iptables rules to mitigate potential future vulnerabilities.

Checking for leaks or privacy breaches.

Experience using encryption software (LUKS on LVM, Veracrypt, etc.).

Experience using offensive pentesting tools.

I am a cybersecurity enthusiast and, in my spare time, I try to gain root access to VMs on platforms such as HTB.

LEADERSHIP AND MANAGEMENT SKILLS

Skills

I have the ability to lead and inspire teams, guiding and motivating them toward the achievement of common goals.

I excel at decision-making, carefully evaluating information and risks to choose the best option in each situation. I also plan strategically, setting long-term goals and defining concrete actions to achieve them.

I possess skills in managing change, successfully leading organizational transformation processes, and coordinating, developing, and maintaining high-performance teams.

My focus is always on achieving measurable and sustainable results, while effectively managing time and priorities to optimize resources and activities. I am able to identify the root causes of problems and implement practical and effective solutions.

INTERPERSONAL AND COMMUNICATION SKILLS

Skills

I practice active listening, paying attention to the client to fully understand their needs.

I strive to communicate clearly and coherently, expressing my ideas in a precise, organized, and understandable manner.

I work as a team, collaborating effectively with my colleagues to achieve common goals. I also adapt my communication to the audience, adjusting my language and style when necessary, and develop persuasive skills to positively influence and achieve agreements or changes.

I also value constructive feedback, both when giving and receiving criticism.