

# David Susagna Holgado

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📍 Barcelona, Catalonia, Spain

## EXPERIENCE

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I am a software developer in training, passionate about building efficient solutions and continuously expanding my knowledge. I am particularly interested in system development, performance optimization, and well-structured software design. I bring strong teamwork skills, fast adaptation to new technologies, and an analytical mindset for problem-solving and improving technical processes. Committed to writing clean, maintainable, and result-oriented code.

## EXPERIENCE

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### La Salle URL

September 2025 – Present

*Research Teacher Assistant– Computer Architecture & AI Acceleration*

Barcelona, Spain

- Collaborating on computer architecture projects focused on AI acceleration and quantum computing.
- Designed and tested hardware-software solutions to optimize Machine Learning performance.
- Applied hardware-software co-design to integrate algorithms with high-performance workflows

### La Salle URL

September 2025 – Present

*Software Development Teacher Assistant*

Barcelona, Spain

- Contributed to projects in Programming I & II, Advanced Programming, Programming Languages, and Operating Systems.
- Developed and tested Android apps, implementing algorithms and data structures in Java, Python, and C.
- Wrote documentation, collaborated with peers, and applied Git, OOP, and modular programming.

### La Salle URL

September 2023 – July 2024

*Software Engineering Teacher Assistant*

Barcelona, Spain

- Designed practical exercises and continuous assessments in Programming Methodology & Technology using C.
- Developed and tested C programs, ensuring correctness, efficiency, and maintainability.
- Collaborated with professors to document exercises and grading criteria, streamlining course workflows.
- Applied software engineering principles including modular programming, code readability, and debugging practices.

### **SEO Analytics**

April 2018 – August 2022

*Software Development & Web Solutions Specialist*

Lleida, Spain

- Developed B2B web solutions and SEO platforms using PHP, JavaScript, and databases.
- Designed and maintained backend/frontend systems applying Git, modular programming, and optimization.
- Collaborated with clients to deliver technical solutions and automate workflows.

### Meliá Hotels International

April 2017 – March 2018

*Operations & Team Management Specialist*

Palma de Mallorca, Spain

- Led cross-functional Food & Beverage teams, optimizing workflows and service delivery.
- Managed schedules, project planning, and resource allocation to ensure high-quality operations.
- Implemented process improvements and problem-solving strategies to boost team productivity.

## Meliá Hotels International

*Operations Intern / Team Coordination*

*June 2016 – April 2017*

*Madrid, Spain*

- Assisted in coordinating Food & Beverage operations, supporting team workflows and resource management.
- Contributed to process improvements and implemented structured task tracking to enhance efficiency.

## EDUCATION

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### La Salle URL

*Degree in Computer Engineering*

*September 2022 – June 2027*

*Barcelona, Spain*

- Software engineering group researcher.

### Ostelea, Tourism Management School

*Master's in Hotel Management and Restaurant Business*

*September 2016 – June 2018*

*Barcelona, Spain*

- Project Management & Operational Leadership

### Escuela Universitaria de Hotelería y Turismo

*Degree in Hospitality and Tourism Management*

*September 2012 – June 2016*

*Sant Pol de Mar, Spain*

- Specialization in Kitchen Management

## SKILLS

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**Programming Languages:** C, C++, Python, Java, Rust, PHP, JavaScript, Shell, Assembly, Kotlin, Swift.

**Database Systems:** MySQL, SQLite, PostgreSQL, MongoDB.

**DevOps & Version Control:** Git, Dockers

**Cloud & Infrastructure:** AWS, Azure, Google Cloud.

**Software Engineering Practices:** Agile / Scrum, Modular Programming, Object-Oriented Programming (OOP), Design Patterns.

**Research Skills:** Literature Review, Technical Writing, Algorithm Analysis, Scientific Presentations.

**Other Skills:** Problem Solving, Debugging, Performance Optimization, Code Documentation, Team Collaboration

## ADDITIONAL INFORMATION

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**Languages:** Catalan (Native), Spanish (Native), English (B2), French (A1)

**Driving Licenses:** Car (B), Motorcycle (A2)