

Alberto García Martín

Computer Engineer at University of Salamanca

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Summary

Recent Computer Engineering graduate (BSc) from the University of Salamanca with hands-on enterprise experience in data logic, system administration, and technical troubleshooting. Adept at translating complex business requirements into scalable solutions, with a strong foundation in database management, distributed systems, and backend infrastructure. Passionate about cybersecurity and learning basic concepts about it.

Education

Universidad de Salamanca	BSc
Computer Engineer	España, Salamanca • Sept - 2020 / Jun - 2026

Relevant achievements:

- **Bachelor's Thesis (TFG):** Design of a virtual Formula 1 league based on an automated management and scoring system.
 - Awarded Grade: 8.5
- **Professional Internship:** Completed 300 hours as an IT Consultant Intern (Data & Systems)
 - Awarded Grade: 8.5
- **Relevant Coursework:** Data Structures, Algorithms, Relational Databases, Software Engineering, and Information Systems.

[Bachelor's Thesis Overview](#)

Experience

Viewnext	Salamanca, España
SAP Consultant / Engineer (internship)	Feb 2026 - May 2026

- Resolved complex technical incidents and managed client support tickets for enterprise information systems.
- Developed scripts to implement logical filters and color coding in data tables using SAP Analytics Cloud.
- Restructured data documents based on the hierarchy of nightly process chains in production environments.
- Engineered and tested data transformation formulas, transitioning true/false booleans into business-logic values.
- Troubleshoot code routines leveraging AI tools to accelerate problem-solving and implement new logic changes.
- Participated in Agile methodologies, including Daily Stand-ups and Scrum workshops, ensuring aligned team objectives.
- Documented technical procedures and root-cause analysis using knowledge management tools like Obsidian.

Projects

Formula 1 Fantasy Web Application	2026
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- Developed a dynamic Formula 1 Fantasy application handling complex user data and real-time statistics.
- Tech Stack: JavaScript, Vue 3.
- Focused on clean code architecture and responsive UI/UX.

Cryptography & Network Security Implementations	2025
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- Executed practical implementations of informatic systems security, focusing on OS hardening and secure network protocols.
- Applied symmetric (AES, DES, RC2) and asymmetric (RSA, ElGamal) encryption algorithms using tools like OpenSSL and GnuPG.
- Configured robust firewall rules and network traffic filtering using iptables to enforce strict security policies.

OS Process Synchronization & DLL Creation

2025

- Developed a C++ project focused on complex operative systems concepts.
- Implemented advanced process synchronization techniques and thread safety.
- Engineered and compiled custom Dynamic-Link Libraries (.dll) for system-level execution.

Database Transaction Management

2024

- Designed and executed complex database transactions and data consistency protocols.
- Worked with relational databases using PL/SQL (SQL*Plus).
- Integrated logic for NoSQL environments (MongoDB) focusing on efficient data querying.

Linux System Administration & Server Infrastructure

2024

- Architected and configured a secure Linux server infrastructure using Debian 12 for web and educational services.
- Implemented secure SSH protocols (custom ports, timeouts), self-signed OpenSSL certificates, and automated backup routines.
- Managed LAMP stack components (Apache2, MariaDB, PHP) and developed Perl CGI scripts for user lifecycle and permissions automation.

Skills

 Cybersecurity & Cryptography

OpenSSL, GnuPG, AES, RSA, iptables, Network Security, OS Hardening

 Linux System Administration

Debian, Servers, Apache, LAMP Stack, Infrastructure, SSH, Perl

 Software Development & Scripting

JavaScript, TypeScript, ABAP, Python, Git, Clean Code

 Agile Methodologies & IT Support

Scrum, Daily Stand-ups, Troubleshooting, Client Communication, Ticketing Systems

 Database Management & Data Transformation

SQL, PL/SQL, MongoDB, Relational Databases, Data Analytics, ERP, SAP Analytics Cloud

 Distributed Systems & Architecture

Java, Concurrency, High Availability, Fault Tolerance, Process Synchronization, C++

Awards

Viewnext Tech Hackathon 2024 & 2026

2024 / 2026

Selected Participant

Participated in high-pressure 48-hour hackathons. Collaborated with a multidisciplinary team to design and develop a technical solution from scratch. Demonstrated rapid prototyping, problem-solving under tight deadlines, and effective presentation of the final MVP.

Languages

Spanish

Native

English

Intermediate

Other

 B1 Driver License