Álvaro García-Caro Bartolomé

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Portfolio: https://alvaroogarciia1.github.io/

ABOUT ME

Final-year Computer Engineering student at ETSIINF, with an interest in software development as well as in systems and cybersecurity. I am particularly interested in working in Linux and low-level environments, and in the analysis and development of technical solutions. I stand out for my fast learning ability, responsibility, and motivation to participate in technological and research-oriented projects.

EDUCATION AND TRAINING

Bachelor's degree in Computer Engineering
ETSIINF, UPM [09/2021 – Current]

City: Madrid | **Country:** Spain | **Website:** https://www.fi.upm.es/ | **Level in EQF:** EQF level 6

Baccalaureate in Science and Technology
I.E.S Juanelo Turriano [09/2019 – 06/2021]

City: Toledo | **Country:** Spain | **Website:** http://www.iesjuaneloturriano.es/ | **Level in EQF:** EQF level 4

PROJECTS

REST API for a library Design and implementation of a RESTful service for inventory management and book loans, applying HATEOAS principles and persistence in a relational database, using Java, Spring Boot, PostgreSQL, Maven, Postman, and GitHub.

Mobile application for tennis tournament management Development of a multi-platform application for managing tournaments, players, and results, with authentication and cloud storage, using Flutter, Dart, Firebase (Firestore, Auth), and GitHub.

Development of the Sokoban video game Design and implementation of the classic Sokoban game, applying principles of object-oriented programming, version control, and code quality, using Java, Maven, JUnit 5, SonarQube, and GitLab.

Language processor with lexical, syntactic, and semantic analyzers Development of a modular compiler with symbol table generation and lexical, syntactic, and semantic error detection, using Java and GitHub.

MiniShell in C with process management and redirections Implementation of a command interpreter with support for pipes, redirections, and process control, using C, Linux, system calls (fork, exec, pipe, wait), and Makefile.

SKILLS

Java / Python / C / Spring Boot / SQL / MySQL / PostgreSQL / Flutter / Unity / Docker / Git / GitLab / Packet Tracer / JSON / XML / Linux / REST / Teamwork / Troubleshooting / Independent learning

CERTIFICATIONS

[Cisco Networking Academy, 09/2024]
CCNA: Introduction to Networks

Mode of learning: Blended

LANGUAGE SKILLS

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** B2

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