

Julián Carrión Tovar

Computer Science & Business Administration Student

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github.com/jxliian · jxliian.github.io

SUMMARY

Motivated double-degree student in **Computer Science and Business Administration** at the University of Granada (UGR). Combines low-level software engineering capabilities with strategic business modeling. Awarded Course Honors in Statistics (9.8/10) and Web Interface Design (9.4/10). Top 1% high school score with a University Access Score of **13.005/14.000**. Fluent in English (**C1 Cambridge Certified**) and Spanish.

EDUCATION & ACADEMIC HONORS

University of Granada (ETSIIT & Faculty of Economics)

Granada, Spain

B.S. in Computer Science & B.A. in Business Administration (Double Degree)

Sep 2022 – Present

- **Academic Honors (Matrículas de Honor):** Awarded Course Honors in **Quantitative Techniques (9.8/10)** (Statistics, Probability & Data Analysis) and **User Interface Design (9.4/10)** (UI/UX Architecture & Web Development).
- **Relevant Coursework:** Data Structures & Algorithms, Systems Programming, Object-Oriented Design, Operating Systems, Relational Databases (SQL), Software Engineering, Financial Management.

I.E.S. José Martín Recuerda

Motril, Spain

High School Diploma in Social Sciences & Applied Mathematics

Sep 2020 – Jun 2022

- **GPA:** 9.9/10 (Awarded Academic Excellence Honor) · **University Entrance Exam (EBAU):** 13.005 / 14.000.

TECHNICAL SKILLS & LANGUAGES

- **Programming Languages:** TypeScript, Python, C++, Java, C, JavaScript, SQL, Bash.
- **Tools & Frameworks:** React Native (SDK 54), SQLite, Git, GitHub, Docker, Linux CLI, Flex/Lex, HTML5/CSS3.
- **Core Competencies:** Mobile App Development, Systems Programming, Object-Oriented Architecture, Data Analysis, Agent-Based Modeling (ABM), Software Testing.
- **Languages:** Spanish (Native), English (**C1 Advanced – Cambridge Certificate**), French (Elementary).

FEATURED SOFTWARE ENGINEERING PROJECTS

FitTracker · *React Native (SDK 54), TypeScript, SQLite, Mobile App*

github.com/jxliian/fit-tracker

- Engineered a high-performance, local-first mobile application for resistance training tracking, progressive overload automation, and strength analytics with an embedded SQLite engine.
- Implemented deterministic session tracking, 1RM estimation algorithms, and autoregulated workload recommendations without cloud dependencies.

repasaYA · *HTML5, CSS3, JS, Web Platform*

github.com/jxliian/repasaYA

- Architected a collaborative study platform providing structured university lecture notes, interactive flashcards, and exam practice modules for university students.

Agent-Based Modeling (ABM) Economic & Social Simulation · *Python, Data Science* [github.com/jxliian/ABM-](https://github.com/jxliian/ABM-...)

- Developed a computational agent-based simulation analyzing how income inequality dynamics and interpersonal social network density impact collective happiness metrics.

Markdown to HTML Lexical Compiler Parser · *C/C++, Flex/Lex*

github.com/jxliian/markdown-to-html-lex

- Constructed a lexical scanner and syntax parser in C++ using Lex/Flex to translate Markdown syntax rules into clean, validated HTML documents.

SSDBot · *Python, Discord API, Automation*

github.com/jxliian/SSDBot

- Engineered a modular Discord bot for community management, API integration, and event automation.

AutoQuickTest · *Python, Bash, Testing Suite*

github.com/jxliian/AutoQuickTest

- Built an automated CLI testing utility to compile, execute, and validate code output against expected test cases.

Irrgarten Game Engine · *Java, Ruby, OOP Design Patterns*

github.com/jxliian/Irrgarten-jxliian

- Programmed an object-oriented maze game engine implementing inheritance hierarchies, state machines, and OOP design patterns across Java and Ruby.

LEADERSHIP & SOFT SKILLS

- **Soft Skills:** Team Leadership, Clear Technical Communication, Problem Solving, Adaptability, High Work Ethic.
- **Availability:** Immediate availability for internships, part-time, and tech roles.