



# Aaron David Duque Romero

Caracas, Venezuela

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## EDUCATION

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**Universidad Alejandro de Humboldt**

Caracas, Venezuela

*B.S. in Computer Engineering (Expected Graduation: Aug 2027)*

- **Honors:** Three-time recipient of the Academic Excellence Award (Top of Class).
- **Relevant Coursework:** Personal Finance (Val-U), C1 English Certification (Oxford Institute).

## COMMUNITY SERVICE

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**Escuela de Música Lino Gallardo Chacao, Caracas.**

*Volunteer*

October 2025 – November 2025

Supported logistical operations and administrative management, facilitating the smooth direction of the school and contributing to community arts education.

## PERSONAL PROJECTS

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**Project #1 - Plant Care Full Stack App (Java 21, Spring Boot, React).**

- Developed a comprehensive web application for plant lifecycle management and monitoring, implementing a RESTful layered architecture. Built a robust backend using Spring Boot 3 and Spring Security, securing the API via JWT and user roles. On the frontend, utilized React 19 and Vite to create a reactive interface that enable automated watering schedule calculations and health log management.

**Project #2 - StudyBot AI Flashcards (Python, FastAPI, PostgreSQL)**

- Led backend development and data modeling for an AI-powered educational platform. Designed a high-performance REST API with FastAPI, implementing efficient data models using SQLAlchemy and PostgreSQL. Integrated the Google Gemini API for automatic study content generation and secured the platform with JWT authentication, ensuring data scalability and security.

**Project #3 - Yummy API (Python, FastAPI, SQLAlchemy)**

- Developed the backend for a restaurant and order management platform, focusing on performance and data validation. Used FastAPI to build asynchronous and auto-documented endpoints, and SQLAlchemy to simplify database interaction by unifying Pydantic and SQLAlchemy models. Implemented secure JWT authentication and validated business logic through automated testing with Pytest.

**Project #4 – CRUD Application (Java with Multiple Clients)**

- Architected a comprehensive CRUD application (Create, Read, Update, Delete) in Java. Integrated multiple client interfaces (Terminal, GUI, and Web), demonstrating strong full-stack capabilities, data persistence, and client-server architecture using the Spring Framework.

## SKILLS, ACTIVITIES & INTERESTS

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### Languages:

Spanish: Native.

English (C1): Advanced technical reading and documentation comprehension; intermediate conversational fluency.

### Technical Skills:

Languages & Frameworks: Python, Java, Spring, Spring Boot, FastAPI, HTML, JS, CSS.

Tools & Concepts: MySQL, PostgreSQL, UML, REST APIs, Git/GitHub.

**Certifications:** Universidad Java Udemy, Universidad Python Udemy.

### Professional Summary

Motivated Computer Engineering student specializing in Backend Development with a strong foundation in Java and Python. Experienced in building RESTful APIs and full-stack applications using Spring Boot and FastAPI. Passionate about writing clean, scalable code and seeking an internship or junior role to contribute to software solutions while further developing technical expertise.