

Paul Adrian Pupaza

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Barcelona, Spain | Authorised to work in the EU, including Ireland; no sponsorship needed

SUMMARY

Final-year Software Engineering student focused on software design for backend services, data handling and LLM integration. Fluent in Python, with JavaScript/TypeScript project work and Java and C/C++ from coursework. Teaching Assistant reviewing 400+ code submissions per semester.

EDUCATION

La Salle BCN

Bachelor in Software Engineering (in progress)

Barcelona, Spain

Expected Jun. 2027

- Coursework: databases, backend development, system architecture

EXPERIENCE

Teaching Assistant in Web Projects (I & II)

Sep. 2025 - Present

La Salle BCN

Barcelona, Spain

- Review and grade over 400 code submissions for 100+ students per semester, giving actionable feedback on code structure, readability and maintainability.
- Help students debug and apply modern development patterns and software engineering principles, contributing to a 22% increase in submission quality.
- Design practical projects and guide students through REST API usage, MVC architecture and backend best practices.

PROJECTS

Bots&Dragons | *Python, FastAPI, JavaScript, LLM Integration*

Ongoing

- Built a custom REST API with FastAPI handling high-speed, bidirectional communication between a JavaScript frontend and a Python backend.
- Integrated an LLM that turns natural-language chat input into actionable game mechanics and character state updates.
- Designed the backend game logic, routing and robust state management for persistent, reliable progression.

AI-OS - AI-Powered Operating Assistant | *Rust, Tauri, TypeScript, Arch Linux*

- Developed a modular AI desktop assistant in Rust that carries out OS-level tasks, file-system operations and directory navigation from natural-language commands.
- Engineered a secure execution pipeline and concurrency handling for LLM-directed command interpretation.

Construction Company Web Platform | *Next.js, TypeScript, Supabase, PostgreSQL*

- Built a full-stack platform focused on reliable data handling, structuring scalable relational database schemas and enforcing server-side validation.
- Developed secured API routes and integrated PostgreSQL (via Supabase) to safely process, authenticate and manage client inquiries.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Rust, SQL, PHP; Java and C/C++ (coursework)

Software Design: Backend architecture, REST API design, MVC, routing and state management, concurrency handling

Frameworks & Tools: FastAPI, Node.js, Next.js, Tauri, Git, Docker, Linux (Arch)

Databases: PostgreSQL (schema design, server-side validation), MySQL, Supabase

Spoken Languages: English (C1), Spanish (native), Catalan (native), Romanian (C1)