Alan Paul Erives Lujan

👤 Professional Profile
Software Engineer

Full-stack Developer with experience in React, Django and MySQL. Passionate about developing efficient and scalable applications. I specialize in API REST, databases, and UI/UX design. Ability to work in agile teams using Scrum methodologies. Committed to continuous improvement and technological innovation.

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Experience

Junior Developer (MVP) - play lab, Monterrey, Mexico
(January – September 2024)

- Achieved an 80% improvement in system security by developing an authentication system with two login types using **Python** (Django), which led to a significant reduction in unauthorized access.
- Increased deployment stability by 70% by connecting **GitHub** with PythonAnywhere to automate code implementation and updates using Python, which led to a substantial reduction in production errors.
- Optimized backend performance by migrating the database from SQLite3 to **MySQL** on PythonAnywhere using Python, which led to greater scalability and improved data management.
- Improved system personalization by developing a dynamic function in Python to retrieve images based on the user's points and English level, which led to a more adaptive and engaging user experience.
- Ensured efficient version control by implementing GitHub with SSH, which led to structured collaboration and continuous project development.

Junior Developer (MVP) - CommunityLab, Chihuahua, Mexico
(January – September 2025) communitylab.com

- Built a developer–company connection system from scratch using **Next.js** and **MongoDB**, improving integration beyond the low-code base.
- Enhanced client insights by integrating GPT services with custom OpenAI API prompts, generating tailored project proposals.
- Deployed testing and production environments on **Vercel**, ensuring transparency and continuous client feedback.
- Increased system flexibility by implementing new sections, enabling smoother workflows.
- Improved delivery quality with Cursor, applying AI-powered coding rules and enforcing consistent patterns.

Project **2022-2023**

Cloud Store Inventory Project

Designed and implemented a store inventory management system using **Next.js** for the frontend, Node.js for the backend, and **Postgres** (RDS) for the database. The system was deployed on **AWS EC2**, ensuring scalability and reliable cloud-based operations. Integrated AWS S3 for secure and efficient product image storage, while query optimization in Postgres RDS allowed faster inventory updates and data retrieval. The interface was styled with **Tailwind CSS** to provide a clean and responsive user experience. This project demonstrated full-stack development with cloud deployment, database optimization, and modern UI design.

Tech stack: AWS | Postgres | Node | Tailwind | EC2 | RDS | S3 | Next.js

Education **(2021 - 2025)**

Universidad tecnológica de chihuahua (Utch)

Software Development and Management Engineering Student
(Graduate: non-degree)