

AGUSTÍN ADOLFO BARRIO EASTMAN

Full Stack Developer | Node.js • React • TypeScript

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PROFESSIONAL SUMMARY

Full Stack Developer with over 4 years of experience in Node.js, React, Next.js, and TypeScript. Experienced in API design, backend architectures, web interfaces, and optimizing SQL and NoSQL databases. Knowledgeable in DevOps (Docker, CI/CD, Nginx, and VPS).

TECHNICAL SKILLS

- **Languages & Frameworks:** Node.js, TypeScript, JavaScript, NestJS, Express, React, Next.js.
- **Databases:** SQL/NoSQL (MySQL, PostgreSQL, MongoDB, Redis).
- **Infrastructure & DevOps:** Docker, Docker Compose, Nginx, VPS, GitLab CI/CD, DNS Configuration.
- **APIs & Protocols:** REST, GraphQL, JWT, WebSockets, MQTT.
- **IoT & Hardware:** ESP32, PlatformIO, OTA Updates.

PROFESSIONAL EXPERIENCE

Solúnika | Buenos Aires, Argentina

Full Stack Developer | June 2022 – Present

- Designed and developed microservices and REST/GraphQL APIs with Node.js (Express and NestJS).
- Implemented JWT authentication, role-based access control (RBAC), and error handling.
- Designed and optimized relational databases, complex SQL queries, and data migration strategies.
- Integrated automated business logic processes and third-party service systems, including interactive chatbots.
- Implemented caching mechanisms with Redis to optimize application response times and reduce database load.
- Managed infrastructure deployments on Cloud VPS servers, configuring Nginx as a reverse proxy and automating processes using Docker and GitLab CI/CD pipelines.
- Developed modular and responsive frontend components with React and Next.js using a microfrontend architecture (Module Federation) to consume integrated backend services.

FEATURED PROJECTS

Elevator Monitoring System (IoT Solution)

- Developed an end-to-end IoT solution for real-time monitoring of machine rooms using ESP32 microcontrollers and PlatformIO.
- Developed a NestJS backend incorporating JWT device authentication, secure MQTT (EMQX) data transmission, and OTA update management.
- Developed a real-time monitoring dashboard with Next.js and WebSockets capable of managing multiple data streams from connected devices.
- Configured and deployed the entire infrastructure using Docker and Nginx.