

Emanuel Sena

Software Developer

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Location: Salvador, Bahia, Brazil

Links: [GitHub](#) | [LinkedIn](#)

EDUCATION

Analysis and Systems Development (6th Semester)

Instituto Federal de Educação, Ciência e Tecnologia da Bahia (IFBA)

March 2023 – Present / Salvador, Bahia

- **Key Coursework:** Algorithms, Data Structures, Object-Oriented Programming (OOP), Databases, Design Patterns, Web Programming, Data Analysis, Distributed Systems, Software Architecture, Software Engineering, Project Management, and Systems Audit.

SKILLS

- **Languages:** C#, Java, Python, JavaScript, TypeScript, C.
- **.NET Ecosystem:** ASP.NET Core MVC, ASP.NET Core Web API, ASP.NET Web Forms, Worker Services, Minimal APIs, Razor Pages, Entity Framework, LINQ, Web Services (SOAP), ADO.NET.
- **Java Ecosystem:** Spring Boot, JPA, JDBC, Hibernate, Maven, REST.
- **Python Ecosystem:** Flask, Pandas, Matplotlib, Numpy, TensorFlow, Scikit-Learn, OpenCV, Pillow.
- **Web Development:** React, Angular, Axios, HTML/CSS, JavaScript, Ajax, jQuery, Bootstrap.
- **Databases:** SQL Server, PostgreSQL, MySQL, Firebase. (Proficient in Triggers, Views, Indices, Functions, Procedures).
- **Fundamentals:** Object-Oriented Programming (OOP), Design Patterns, SOLID Principles, Object Calisthenics.
- **Tools & DevOps:** RabbitMQ, SignalR, Prometheus, HangFire, Grafana, Swagger, Postman, Docker, Visual Studio Code, Visual Studio 2019/2022, IntelliJ, PyCharm, Eclipse, Azure DevOps, AWS S3 Bucket.

PROFESSIONAL EXPERIENCE

Mid-Level Full Stack Systems Analyst

AdSet Innov | Lauro de Freitas, BA

November 2025 – Present

- Responsible for diagnosing and fixing software defects, ensuring compliance with business rules and optimizing system flows at both code and functional levels.
- Implementing new features to the platform, enhancing user experience (UX) and overall system usability.
- Developed integrations with third-party sales portals (e.g., OLX) for lead capture, managing the entire lifecycle including authentication, authorization, data capture, and lead management.

Developer

Computação Brasil | Salvador, Bahia

June 2023 – November 2025

- **AI & Computer Vision:** Developed computer vision solutions for iris and pupil detection to automate an iridology project. Trained and optimized Machine Learning models for image classification, introducing an AI-driven approach to the project.
- **Web Development:** Designed, developed, and maintained 4 web applications using ASP.NET (Core MVC and Web Forms) serving over 300 active users and processing daily transactions.
- **API Architecture:** Developed a suite of REST APIs using ASP.NET Core, which currently serves as the foundation for the company's internal systems.
- **System Refactoring:** Refactored critical legacy ASP.NET modules, improving code readability and maintainability. Led the refactoring of a microservices architecture by introducing a MemoryCache layer, significantly reducing system load times.
- **Clean Code & Architecture:** Refactored legacy code by applying SOLID principles and Design Patterns (Chain of Responsibility, Factory, Command, Template Method, and Builder). This reduced cyclomatic complexity and accelerated the time-to-market for new features.
- **Database Design:** Designed and implemented SQL Server database modeling for new applications, creating precise tables and relationships, and implementing procedures and triggers to ensure data integrity from the start.
- **Asynchronous Messaging:** Implemented a messaging system using RabbitMQ and Worker Services to handle communication between 4 microservices. This resolved

email delivery failures by implementing retry policies and error logging (Dead Letter Queues).

- **Observability:** Deployed a complete observability stack (OpenTelemetry, Prometheus, Grafana) for critical systems. Analyzed metrics to identify and fix memory leaks, excessive thread usage, inconsistent Garbage Collection, and inefficient queries, preventing a full system rewrite.
- **Integrations:** Successfully integrated systems with external APIs (Banco do Brasil, GovBR, ViaCep, Gemini), automating processes that previously required manual data entry.
- **Automation:** Developed automated background jobs using HangFire to handle financial reimbursements, contract terminations, and data cleanup, eliminating manual operational work.
- **Real-Time Features:** Implemented real-time notifications using SignalR to update users on status changes, improving user engagement.
- **Documentation & Mentoring:** Created comprehensive documentation for APIs and tools. Mentored interns on company technologies and best practices, providing daily code reviews and support.

SUCCESS CASES

- [Check out my portfolio for detailed case studies and code samples.](#)