CAIO FERNANDES | +55 51 99173 2630 | caiomigueldev@gmail.com | LinkedIn

SUMMARY

Experienced Senior Backend Engineer with 5 years of expertise in .NET, cloud computing (Azure, AWS, OCI, GCP), microservices architecture, and high-performance APIs. Proven track record of leading mission-critical projects, including large-scale rescue and healthcare systems, impacting thousands of users worldwide. Specializes in designing scalable, secure, and efficient backend solutions, leveraging CI/CD, containerization (Docker, Kubernetes), and distributed messaging systems (RabbitMQ, Kafka). Strong problem-solving skills, a collaborative mindset, and a passion for continuous learning and innovation.

EXPERIENCE

TK Elevator (Formerly ThyssenKrupp) – Senior Software Engineer | 2025 – PRESENT

- Contributed to the development of the MAX Cloud Platform, a self-healing system for elevator hardware, collaborating with Microsoft developers and using .NET, TypeScript, React Native, and Azure Cloud Functions to enable predictive maintenance and automated technician dispatch.

- Acted weekly as DevOps Engineer, maintaining and improving CI/CD with Azure Pipelines and managing Azure infrastructure, including Azure Service Bus and Azure Cosmos DB, enhancing deployment efficiency and system stability.

- Maintained the virtual twin approach for elevators, ensuring real-time monitoring and state replication using Azure services, resulting in smarter diagnostics and proactive issue resolution.

- Fostered a collaborative team culture, improving communication, agile workflows, and knowledge-sharing, which led to a significant boost in delivery performance and efficiency.

ADP – Senior Software Engineer | 2024 – 2025

- Migrated a large-scale payroll aggregation system to a modern containerized architecture using Docker, Kubernetes, AWS ECS/EKS, S3, MongoDB, and .NET Core 8, improving scalability and deployment automation.

- Led modernization initiatives by refactoring third-party libraries and frameworks, integrating Jenkins pipelines and enhancing compliance, security, and maintainability.

- Redesigned testing strategies using TestContainers and integrated real database testing into CI/CD pipelines, increasing test coverage by over 30% and improving application reliability.

- Collaborated with international teams and contributed Node.js and TypeScript development in client-specific services, improving delivery time and code consistency.

Apps4Business – Software Engineer and Senior Software Engineer | 2022 – 2024

- Led backend development of a multi-tenant platform for judicial assemblies using .NET, Docker, React, and Azure, enabling scalable architecture for managing hundreds of creditors and their attorneys.

- Contributed to features for the Unimed Cliente App, used by over 8 million users, building high-performance APIs and optimizing services with Oracle, .NET, gRPC, Azure, TypeScript, and React.

- Developed the careers module and a robust file processing system for a healthcare professional network, leveraging Azure Storage, SQL Server, Docker, and Kubernetes to ensure high availability.

- Built and maintained scalable microservices for a SaaS platform, including notifications, news, and administrative tools using .NET, Node.js, Azure Functions, React, and Kubernetes, increasing performance and reliability.

- Led and orchestrated a complex integration between a client's system and Philips Tasy, using microservices architecture, Oracle DB, and Azure Service Bus, while collaborating directly with client developers and stakeholders to ensure secure, real-time interoperability and successful delivery aligned with business goals.

- Migrated a drone-based security automation service to .NET Core, using SQL Server, REDIS, Mongo DB, and Azure services to improve integration and operational efficiency.

Excel Suprimentos – Jr. Software Engineer | 2021 – 2022

- Developed and maintained Windows Forms applications using .NET Framework and SQL Server to support B2B sales, improving operational workflows.

- Created internal systems for managing employee extensions and dashboards, enhancing communication and operational control.

- Automated reporting metrics with custom analytics and integrated real-time email notifications, delivering improved team insights and responsiveness.

Stratus – Own Freelance Company

- Co-founded and led the development of ResgateRS, a real-time rescue platform used during the 2024 Rio Grande do Sul floods. Designed database architecture and built backend and frontend with .NET, Entity Framework, React and NextJS, contributing to saving more than 200 lives.

- Built and deployed Luz dos Signos, a MicroSaaS using React, Next.js, Node.js, TypeScript, and AI to deliver personalized daily horoscopes, achieving fast content delivery with a modern user interface.

- Currently developing an AI-based training plan generator for runners, combining Python, .NET, and React to build a real-time, personalized fitness assistant.

- Delivered various freelance tools and dashboards using Python, React, Node.js, and TypeScript, improving business operations and workflow automation for clients.

EDUCATION

Bachelor of Computer Science – UNISINOS

LANGUAGES

- **Portuguese – Native language**
- **English – Fluent**

SKILLS

Languages and Frameworks: .NET Core, .NET Framework, Node.js, JavaScript, TypeScript, React, React Native, Next.js, C#, Python, SQL

Cloud Platforms: Azure (Functions, Pipelines, Storage, Service Bus, Cosmos DB), AWS (ECS, EKS, S3), GCP, OCI

Architecture: Microservices, Event-Driven Architecture, DDD, TDD, Clean Architecture

Databases: SQL Server, MongoDB, Oracle, Azure Cosmos DB

DevOps & Tools: Docker, Kubernetes, Git, CI/CD, Jenkins, Azure Pipelines, TestContainers, RabbitMQ, Kafka, Terraform, Agile

AI/LLMs: AI content generation, custom LLM integration, AI-based personalization and automation

Soft Skills: Fast learner, collaborative mindset, clear communicator, agile team player