

Mikael Ribeiro Simoes

Senior Software Engineer · Software Development Expert

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Full stack software developer with **6+ years** across backend architecture, enterprise systems and the front ends on top of them. Deep expertise in .NET, ASP.NET Core and Node.js, shipping production APIs, microservices and CI/CD pipelines. Contributed to platforms serving **780,000+ users**, trained **500+ students and professionals**, and won **two WorldSkills gold medals** in Software Applications Development. **Chief Expert for the United Arab Emirates** in the same skill.

EXPERIENCE

Senior Software Engineer

09/2023 – Present

ACTVET · Abu Dhabi, UAE

- Built the Student Management Platform for EmiratesSkills and WorldSkills competitors in Next.js and MariaDB, covering training tracking, performance monitoring and reporting for 200+ active users.
- Build and maintain internal platforms across the .NET stack (ASP.NET Core Web API, Entity Framework Core, ASP.NET MVC, .NET MAUI, WPF, Windows Forms) for academic, operational and administrative workflows.
- Integrate AI solutions for automation, analytics and operational optimisation, and configure virtualised and cloud environments that simulate production and competition-grade systems.
- Implement secure APIs and CI/CD pipelines via GitHub Actions and Azure Pipelines; automated testing with xUnit reduced deployment issues by 30%.
- Lead technical instruction for 500+ students and professionals across ATS schools, HCT and Khalifa University, in international, multicultural environments.
- Deliver enterprise-scale software aligned with multi-year business lifecycles, ensuring reliability and long-term maintainability.

Full Stack Developer

01/2023 – 09/2023

Radix Engineering & Software · Rio de Janeiro, Brazil

- Supported ~15 microservices communicating over RabbitMQ and 3+ enterprise platforms in production; stabilised SotreqLink, the operational management platform for Sotreq and Caterpillar, serving roughly 5,000 internal users and field technicians.
- Resolved 50+ production incidents per month through root cause analysis, reducing recurring failures by 35% and delivering 100+ corrective fixes and feature updates.
- Built backend services with ASP.NET Core and ASP.NET MVC; optimised data access via Oracle DB and Redis, improving response times by 20-30%.
- Managed cloud infrastructure and CI/CD on Microsoft Azure; deployed Grafana, Loki and Prometheus, cutting incident detection time by 40%.
- Maintained 99.9% availability on Docker and Kubernetes; scaled automated test coverage to 75%.
- Shipped a React Native app for 200+ field technicians (Android & iOS) and integrated SAP workflows processing thousands of financial transactions monthly.

Full Stack Developer

04/2022 – 01/2023

SENAI Alagoas · Maceio, Brazil

- Developed 10+ web and mobile applications for the Federation of Industries; contributed to SENAI Play, a national LMS with 780,000+ active users across Brazil.
- Designed REST and GraphQL APIs with NestJS / Node.js; built responsive front ends with Angular, TypeScript and SASS.
- Reduced production defects by 25% through automated testing with Jest and Jasmine; managed CI/CD via GitLab CI.
- Containerised environments with Docker and Docker Compose, cutting image size by 50%; managed MySQL and SQL Server databases.
- Applied Scrum across cross-functional teams and led 5+ internal training sessions on architecture and best practices.

Web Developer

03/2021 – 04/2022

SENAI Alagoas · Maceio, Brazil

- Led end-to-end development of four WordPress projects, from requirements and implementation through to deployment.
- Built SENAI digital platforms with Angular and NestJS (TypeScript), integrating RESTful APIs with dynamic front ends.
- Applied professional standards in version control, documentation and code quality across the full development lifecycle.

AWARDS & RECOGNITION

Gold medal, Software Applications Development	WorldSkills Americas, WorldSkills International · Nov 2021
Gold medal, Software Applications Development	National championship, WorldSkills Brasil / SENAI · Feb 2022
Chief Expert for the United Arab Emirates	Software Applications Development, EmiratesSkills (ACTVET) · owns the test project, marking scheme and judging; WorldSkills Expert for the UAE
Speaker, 350+ developers	Rocketseat Meetup, Maceió · Apr 2023 · the largest in Rocketseat's history
780,000+ users on SENAI Play	National learning platform, live across Brazil
500+ people trained	Students and professionals, from first loops to production architecture

TECHNICAL STACK

BACKEND	C# · .NET / ASP.NET Core · ASP.NET MVC · Node.js · NestJS · REST · GraphQL · JWT
FRONTEND	Angular · TypeScript · React · Next.js · SASS · HTML/CSS · Apollo
DATABASES	SQL Server · Oracle DB · MySQL · MariaDB · Redis · TypeORM · Sequelize · Entity Framework
DEVOPS & CLOUD	Microsoft Azure · AWS · Azure Pipelines · GitHub Actions · GitLab CI · Docker · Kubernetes
TESTING	xUnit · Jest · Jasmine · Automated testing pipelines
OBSERVABILITY	Grafana · Prometheus · Loki
MOBILE & DESKTOP	React Native (Android & iOS) · .NET MAUI · WPF · Windows Forms
ARCHITECTURE	Microservices · Event-driven with RabbitMQ · Clean architecture · Domain-driven design
INTEGRATIONS	SAP · AI for automation and analytics · WordPress / CMS

SELECTED PROJECTS

AUTEGE	Workshop management for service workshops in Brazil and the UAE, public site and internal operations app. autege.com
EmiratesSkills Competition System	Runs the UAE national skills competition end to end, plus the public site. emiratesskills.mikkaiser.com
Training Planner	Planning and tracking for competition training programmes, full .NET stack. training-planner.mikkaiser.com
TechKnowledge	Technical blog written with Leticia Dias, sharing what we learn about technology, from backend architecture to enterprise development. techknowledge.blog
SotreqLink	Operational management platform for Sotreq and Caterpillar, ~5,000 users, with Android and iOS apps.
SENAI Play	National learning platform with 780,000+ active users. play.senai.br

EDUCATION

BSc Computer Software Engineering
UniCesumar Dubai · 2026 — 2030 (in progress)
English Language and Literature, ESL
Times Idiomas, Sao Paulo · 2022 — 2024
Internet IT Technician
SENAI Alagoas · 2019 — 2020

CERTIFICATIONS

Docker, Full Cycle Certification
Full Cycle · Dec 2022
NestJS, Build Modern APIs with Unit Testing
Udemy · Jul 2022
Design Patterns in C#
Udemy · Sep 2021
How to Lead and Work as a Team
LinkedIn Learning · Oct 2021

LANGUAGES Portuguese (native) · English (professional working proficiency)