

Matheus Afonso

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PROFESSIONAL SUMMARY

Senior Software Engineer with 5+ years of experience designing scalable backend and event-driven systems in fintech and high-traffic platforms. Proven track record of improving performance, reliability, and developer productivity through architectural redesigns, distributed systems, and cloud-native solutions.

WORK EXPERIENCE

Senior Software Engineer Oct 2023 — Present
Duelbits *2y4m+*

- Led a full redesign of the event ingestion architecture, introducing real-time provider integrations and unified system patterns, reducing processing latency by 70%.
- Increased developer velocity by 25% through the standardization of RESTful APIs and a shared internal design system, reducing average feature time-to-market from 3 weeks to 2.
- Technologies: NestJS, TypeScript, React, Angular, Amazon Web Services, Google Cloud Platform, Tailwind, Terraform

Mid-Level Software Engineer Jul 2022 — Oct 2023
Stone *1y3m*

- Replaced Airflow DAG-based workflows with an event-driven Kafka worker, increasing reliability and enabling real-time contract payment processing.
- Built an automated accreditation tool that cut client onboarding time by 50%, improving finance team throughput and data accuracy.
- Technologies: Python, Airflow, Redshift, Apache Kafka, Amazon Web Services, Google Cloud Platform, Terraform

Mid-Level Software Engineer Apr 2021 — Jul 2022
Zapay *1y2m*

- Designed microservices for traffic fine payments and automotive debt search, improving payment timeliness by 90%.
- Architected the migration of core payment flows to an event-driven model using Python and Kafka, resulting in a 3x increase in system throughput and 90% uptime during peak traffic..
- Technologies: Python, Django, FastAPI, Kubernetes, DynamoDB, Docker, Amazon Web Services

Junior Software Engineer Feb 2020 — Apr 2021
Lead Up *1y2m*

- Developed a distributed asynchronous pipeline to collect global airspace data and stream real-time updates to an interactive map for drone route planning.
- Built a monitoring platform for health incident reporting, improving coordination and response tracking for enterprise clients.
- Technologies: NestJS, React, TypeScript, Redis, PostgreSQL, Amazon Web Services

SKILLS

Programming Languages	Python, TypeScript
Databases	DynamoDB, Redis, MongoDB, PostgreSQL
Technologies	React, NestJS, Airflow, Docker, FastAPI, Django, Kubernetes, Apache Kafka, Angular
Cloud Platforms	Amazon Web Services, Google Cloud Platform

EDUCATION

Software Engineer, Bachelor, University of Brasilia

Aug 2018 — Aug 2025