

André Abreu

Senior Software Engineer | AI Engineering & Distributed Systems | .NET, Python, Azure | Next.js, Angular

São Paulo, Brazil | Remote | +55 11 98214-9143 | andre.abreu@live.com | linkedin.com/in/andreeabreu | github.com/andreabreu

SUMMARY

Senior Software Engineer with 10+ years building production systems for banking, compliance, SaaS, and enterprise environments. Specialized in AI Engineering, distributed systems, .NET, Python, and Azure, with full-stack delivery across backend, frontend, cloud infrastructure, and DevOps.

Designs and ships LLM-powered platforms using RAG, embeddings, vector search, tool calling, agentic workflows, and workflow orchestration - alongside API security, clean architecture, CI/CD, and observability. Open to remote roles in AI Engineering, Backend, Full Stack, and cloud-native development.

TECHNICAL SKILLS

Languages	C#, Python, TypeScript, SQL, JavaScript
Backend	.NET 8/6, ASP.NET Core, Web API, REST, microservices, background processing, SignalR
Frontend	Angular, Next.js, React, HTML5, CSS, responsive web applications
AI / Engineering	LLM applications, RAG, AI agents, embeddings, vector search, tool calling, prompt engineering, LangGraph, Temporal, Azure OpenAI, AI workflow orchestration
Databases	SQL Server, PostgreSQL, Prisma, relational modeling
Cloud	Microsoft Azure, Azure OpenAI, Azure Storage, Azure DevOps, cloud architecture
DevOps	Docker, Kubernetes, CI/CD, GitHub Actions, IIS, infrastructure automation, observability
Messaging	Asynchronous processing, messaging (Kafka), event-driven architecture, real-time communication
Security	OAuth 2.0, OpenID Connect, JWT, IdentityServer, authentication and authorization
Architecture	Clean Architecture, DDD, SOLID, CQRS, microservices, distributed systems, API design
Testing	Unit testing, integration testing, automated testing

SELECTED IMPACT

- Built AI-powered recruitment workflows that automate pre- and post-interview analysis and reduce manual candidate screening effort.
- Designed agentic service-desk workflows for ticket classification, knowledge retrieval, resolution assistance, and escalation.
- Modernized legacy banking applications across multiple generations of .NET and Angular platforms over a 7-year engagement.
- Delivered AML/compliance screening and institutional trading blotter platforms supporting enterprise financial operations.
- Designed cloud-native delivery patterns with containerization, CI/CD, identity services, and production observability.

EXPERIENCE

AE Digital Solutions | Senior Software Engineer / Founder

Jan 2022 - Present

São Paulo / Remote | Independent consulting and product development alongside client engagements

- Lead architecture and delivery of custom platforms, integrations, cloud infrastructure, and technical advisory for business clients.
- Built and launched an AI-assisted ATS for recruitment (Next.js, Prisma, Azure OpenAI): sourcing, pipeline management, candidate portals, and LLM-powered pre-/post-interview analysis.
- Designed an agentic service desk (LangGraph, Temporal, RAG on PostgreSQL) for triage, SLA handling, knowledge retrieval, tool calling, and workflow orchestration.
- Delivered dashboards, CRM integrations, and CI/CD automation under client confidentiality constraints.

Fato IT Consulting | Full Stack Developer

Apr 2018 - Present

São Paulo / Remote | Long-term consulting engagement in banking and compliance (concurrent with AE Digital from 2022)

Banking & Compliance

2018 - 2025 | Seven-year enterprise engagement

- Developed and supported enterprise banking applications across multiple generations of .NET and Angular platforms.
- Modernized legacy ASP.NET Web Forms systems into Angular frontends and .NET APIs; maintained production support, incident resolution, and continuous platform evolution.
- Designed and maintained REST integrations, Kafka messaging workflows, IdentityServer authentication, and Azure DevOps CI/CD pipelines.

AML / Compliance

- Developed screening and compliance workflows supporting watchlists and AML operations for bank compliance teams.
- Built backend APIs and analyst-facing web modules integrating internal and external screening services for high-volume data processing.

Trading Operations

- Modernized an institutional trading blotter with real-time web interfaces (SignalR), APIs, relational persistence, and production observability.
- Worked across frontend, backend, deployment, and operational support for trading workflows.

Samsung SDS | Full Stack Developer

Jun 2021 - 2023

São Paulo | Concurrent consulting engagement alongside Fato IT

- Developed full-stack web applications using .NET, Angular/JavaScript, and cloud object storage for high-traffic public-facing platforms.
- Supported campaign tracking, form flows, social integrations, tagging, performance validation, and security checks on external sites.

São Paulo

- Developed and supported enterprise web applications, internal portals, web services, reporting dashboards, and ETL/version-control workflows.

TecnoComp (onsite at Aon) | Infrastructure Analyst

Oct 2014 - Oct 2017

São Paulo | Earlier: Technical Support and Freelance Web Development (2012 - 2014)

- Administered virtualization, Windows servers, directory services, DNS/DHCP, and backups; automated infrastructure with scripting.

SELECTED PROJECTS

AI Recruitment / ATS

Next.js, Prisma, Azure OpenAI, LLM workflows

- Multi-tenant recruitment platform with sourcing, candidate pipeline, recruiter workflows, interview analysis, and automated evaluation.
- Integrated external recruitment data sources and collaboration workflows with LLM-powered pre- and post-analysis.

AI Service Desk

LangGraph, Temporal, RAG, PostgreSQL, vector search, tool calling

- Agentic service desk for ticket classification, knowledge retrieval, resolution assistance, and escalation.
- Implemented RAG, vector search, tool calling, and workflow orchestration with enterprise system integrations.

AML / Compliance Platform

.NET, Angular, screening APIs, watchlists

- Compliance screening workflows with watchlists, screening services, and analyst-facing web applications.
- Backend APIs and services supporting compliance operations and high-volume data processing.

Trading Blotter

.NET, Angular, SignalR, SQL Server, observability

- Modernized an institutional trading blotter with real-time updates, APIs, relational persistence, and production observability.
- End-to-end ownership across backend, frontend, deployment, and production support.

EDUCATION

Machine Learning Engineering (Postgraduate) | FIAP

Mar 2026 - Feb 2027 | In progress | MLOps, LLMOps, RAG, containers, APIs, multi-cloud

Análise e Desenvolvimento de Sistemas | Estácio

2017 - 2020

LANGUAGES

Portuguese — Native | English — Full professional (C1) | Spanish — Elementary

CERTIFICATIONS

Microsoft Azure Developer Associate (AZ-204) | Microsoft Azure Fundamentals (AZ-900) | Identity / microservices / DevOps coursework (2021)

References and additional project details available upon request, subject to client confidentiality.