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Diogo Martins de Assis

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Work Experience

Software Engineer II — **Serasa** — **June 2026–Present**
Payments team — Remote – Blumenau, SC, Brazil

- Built Open Finance data requests for the Score team (investments, credit and FX) on a platform with **1M+ organic consents**, adding **10 new data types**.
- Work on Pix, bank slip and transfer flows handling **510k+ transactions/month**; 78% of Limpa Nome deals use Pix.
- Improved idempotency of SQS/SNS payment events with Redis, **cutting duplicate payment incidents by 40%**.
- Work on Open Finance payment initiation so users pay debts from other banks without leaving the app.
- Improved Datadog monitoring for Pix and bank slip flows, **cutting incident detection to under 10 minutes**.
- Skills: C#, .NET, AWS (SQS, SNS, S3), Kubernetes, Redis, GitLab CI/CD, Datadog, Databricks, microservices, AI-assisted development (Claude, Cursor).

Software Engineer — **Fiscal.io** — **May 2023–Jan 2026**
Core team — Belo Horizonte, MG, Brazil

- Key contributor to migrating core modules from a .NET WinForms desktop app to Angular and .NET Core, **moving 60%+ of active users to the web in 18 months**.
- Core contributor to the AI fiscal agent, an MCP server built with the MCP C# SDK that lets Claude, ChatGPT and Cursor query fiscal data. **Adopted by 2,000+ companies in 6 months**.
- Co-built LLM invoice classification (CFOP, CST, NCM) with Semantic Kernel and OpenAI, **reaching 92% accuracy**.
- Co-developed the SEFAZ × ERP × SPED reconciliation engine, **cutting reconciliation from days to under 2 hours**.
- Contributed to the RabbitMQ/AWS pipeline capturing **270M+ documents/month**, **cutting latency by 35%**.
- Skills: MCP C# SDK, Semantic Kernel, OpenAI & Anthropic SDKs, function calling, RAG, C#, .NET, Angular, TypeScript, RabbitMQ, AWS, SQL Server.

Education and Certifications

- **B.E. Software Engineering,** PUC Minas (Pontifical Catholic University of Minas Gerais), Brazil. **2022–2025**

Technologies and Languages

- Languages: C#, Go, TypeScript, JavaScript, Python, Java, SQL, HTML, CSS
- Technologies: .NET, .NET Framework, ASP.NET, Angular, React, Next.js, RabbitMQ, AI SDK
- Databases: PostgreSQL, SQL Server, MySQL, Oracle, Redis, DynamoDB
- Infrastructure: AWS (EC2, S3, SQS, SNS, SES), Kubernetes, Docker, CI/CD (GitHub Actions, GitLab), Datadog
- Analytics: Databricks, Google Analytics

Projects and Research

- **Volunteer Research (UFMG – Federal University of Minas Gerais)**: Trained ML models on eye-tracking data for a PhD thesis on neuro-affective architecture, and study instance selection for extreme multi-label text classification (RAG-Fuse), using rigorous statistical testing to tell data redundancy apart from insufficient statistical power.
- **Empenhando**: SaaS tracking government purchase commitments and payments for public suppliers, with a rate-limited Portal da Transparência gateway (DynamoDB lease, sliding windows, backoff, DLQ) and caching that caps CNPJ lookups at **2 calls**. Skills: Go, React, TypeScript, DynamoDB, SQS, SES, Stripe, Render, Google Analytics.
- **Algorithms in Sight**: Educational platform focused on helping developers learn algorithms, data structures, and system design through accessible study resources. Skills: HTML, Render, GoatCounter.