

**Alex Benjamin**

41 years old

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**Objectives****Technical Head of Large-Scale Innovation/Modernization Projects****Professional Summary**

Professional with over 18 years of experience in software engineering, project leadership, and innovation, involved in the entire software lifecycle, from requirements gathering to development, testing, and maintenance. Specialized in modernizing legacy systems and migrating to the cloud, leading large-scale projects involving Mainframe platforms and diverse technologies. Strong focus on Artificial Intelligence (AI), automation, and developing customized AI solutions for commercial applications, utilizing advanced frameworks such as RAG (Retrieval-augmented Generation), vector databases, and LLMs (Large Language Models).

Additionally, I am the founder and CEO of MoMapping, a company focused on AI solutions and systems mapping, where I implemented advanced technologies to optimize operational efficiency and reduce maintenance costs.

I have solid experience in high and low platform languages, operating systems, and tools, with direct participation in migration and integration projects across diverse environments.

**Professional Experience****Technical Head of Mainframe Modernization**

December 2022 - Present | Grupo Pão de Açúcar (GPA)

Leading the modernization of the Mainframe environment to Google Cloud, focusing on migrating legacy systems and critical databases.

- Migration of 20 databases (2,500+ tables) and 120 legacy systems.
- Modernization of 15,000 Mainframe jobs and Natural/Adabas programs.
- Implementation of DevOps pipelines, enhanced security, and modernization of development tools.

### **Founder and CEO of MoMapping**

April 2015 - Present | São Paulo, Brazil

As the founder and strategic leader of MoMapping, I direct the company with a focus on innovative AI solutions applied to legacy systems and platform migrations.

- Developed and marketed a language mapping platform using C# .NET, Java, and an intuitive interface in Angular and D3.
- Implemented RAG (Retrieval-augmented Generation) integrated with vector databases (ChromaDB and AstraDB) and LLMs like GPT, Gemini Pro, and LLama, resulting in a 250% increase in operational efficiency for clients.
- Applied AI solutions that accelerated the analysis of routine flows in business processes by 70%.
- Developed meta-languages and language mapping engines for code automation, using advanced knowledge of compilers and linguistics.

<http://site.momapping.com.br>

### **Automation Specialist**

November 2018 - April 2019 | Itaú Unibanco

- Implemented automation robots that reduced manual operation time by over 90%.
- Mapped and re-engineered processes for credit card fraud verification using C#, Selenium, and Autoit.
- Object-oriented development and automation of packages with Autolt.

### **Senior Mainframe Programmer/Leader**

May 2010 - November 2018 | Grupo Pão de Açúcar

Worked on implementing and deploying projects aimed at competitiveness and product pricing.

- Managed end-to-end projects and incident management in Mainframe and low-platform environments.
- Developed in Natural/Adabas, JCL, and PL/SQL for environment integration.
- Refactored code for reusability and performance optimization.

### **Mainframe Programmer Analyst**

August 2008 - May 2010 | PRODESP

- Developed and maintained batch and online processes in Natural/Adabas.
- Technical analysis and specification, as well as tuning and refactoring of applications.

### **Mainframe Programmer Analyst**

May 2007 - August 2008 | Citibank

- Developed and maintained Cobol, JCL, and CICS systems.
- Managed projects and structured analysis, process mapping, and status report preparation.

## Academic Background

### Bachelor's Degree

Technology in Data Processing

FATEC-SP (Tiradentes) | 2008

### Languages

- **English:** Fluent (conversation, writing, and reading). Experience with international teams.

### Technical Qualifications

- **Agile Methodology (Scrum):** Active participation in all agile development rituals.
- **Languages and Frameworks:**
  - **Mainframe:** Cobol, Natural/Adabas, JCL, CICS, PLI, Assembly
  - **Low Platform:** Python, C#, VB .Net, Java (SpringBoot, Maven), PL/SQL, JavaScript (Angular, D3), HTML, CSS
- **Databases:**
  - **Mainframe:** DB2, Adabas, VSAM
  - **Others:** Oracle, SQL Server, PostgreSQL, MySQL
- **Tools:**
  - **Mainframe:** Roscoe, TSO, Endeavour, Changeman, Jobtrac
  - **Automation:** Selenium, Autolt
- **Compilers and Linguistics:** Development of DSL (Domain Specific Language), creation of lexical, syntactic, and semantic analyzers.
  - Regex, Antlr, BNF, LL/LR/LALR Parsers

### Extracurricular Courses

- Mainframe Training (680 hours)
- ASP.NET Training (120 hours)