

## MOHAMED IBRAHIM ALJOKE

Full Stack Developer

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## PROFESSIONAL SUMMARY

Full Stack Developer with 4+ years of experience specializing in **Node.js**, **React**, and **AWS** cloud solutions. Proven track record in architecting serverless microservices, leading development teams, and delivering scalable applications in fast-paced environments. Successfully transitioned from Mechanical Engineering to software development, bringing analytical problem-solving skills and systematic approach to complex technical challenges. **AWS Certified Solutions Architect** with expertise in cost optimization, CI/CD automation, and managing multiple concurrent projects.

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## PROFESSIONAL EXPERIENCE

### IDIP Tecnologia

*Full Stack Developer*

Oct/2022 – Present

Software House

### Leadership & Coordination:

- Managed 2-3 concurrent projects in a fast-paced software house environment.
- Coordinated 4 junior developers across multiple projects, providing technical guidance and code reviews.
- Architected system solutions by planning microservices and evaluating technical limitations and compatibilities.

### Backend Development:

- Built microservices architecture on AWS for B2B loan concessions using Cognito authentication, SNS, and SQS communication between Lambdas.
- Implemented Infrastructure as Code with Serverless Framework, managing deployment pipelines and service architecture.
- Developed serverless applications utilizing SQS, S3 events, and Lambda with CloudFormation and Terraform.
- Integrated multiple payment APIs (Asaas, Cielo, Stripe, Itaú, Mercado Livre, Parcelex) and antifraud systems (CAF).
- Migrated databases from Firebase to PostgreSQL and MongoDB with zero downtime.
- Reduced AWS costs through service optimization and automated EC2 instance management via Lambda and Slack integration.
- Created dynamic CI/CD pipelines using GitLab, CodePipeline, and GitHub Actions.
- Implemented comprehensive testing strategies with Vitest and Jest, including Testcontainers for integration tests.

## Frontend Development:

- Rebuilt PWA application from scratch using React.js, managing cross-browser compatibility and native API integration.
- Developed SEO-optimized landing pages with Next.js and real-time dashboards using WebHooks.
- Implemented GraphQL integration with Hasura in microservices architecture.

## Skule Tecnologia

*Intern Mentor*

Feb/2023 – Aug/2023

- Mentored 6 interns across multiple Node.js and Next.js projects.
- Facilitated pull request reviews and conflict resolution.
- Conducted English-focused technical sessions on coding best practices.

## Advanced Digital

*Frontend Developer*

Feb/2022 – Oct/2022

- Developed frontends using React.js and Redux.
- Integrated with Cielo and Mercado Livre APIs using custom React Hooks.
- Created two MVPs in **Flutter** (Dart) using GetX.
- Developed web scrapers in Node.js.
- Styled applications with SCSS and Bootstrap.

## PERSONAL PROJECTS

### Travel Journal

**GitHub:** <https://github.com/MohamedAljoke/travel-journal-v2>

A full-stack serverless application for image storage and management, built entirely on AWS. Implements scalable image upload using S3 pre-signed URLs to bypass API Gateway limitations, with automated backup and processing pipeline. Features include user authentication via Cognito, REST APIs with Node.js Lambda, image processing with Golang Lambda, and React frontend with CloudFront distribution. [Demonstration video](#)

**Key Technical Achievements:** Serverless Framework v4 monorepo deployment, DynamoDB metadata storage, SQS error handling, multi-language Lambda functions.

**Technologies:** AWS (Lambda, S3, DynamoDB, Cognito, CloudFront, SQS), Node.js, Golang, React, Serverless Framework v4

## Mail Sender

**GitHub:** <https://github.com/MohamedAljoke/mail-sender>

**Demo:** <https://www.loom.com/share/f9ab6f55084540c5a0ad010af3fbef89>

A containerized microservices application demonstrating advanced AWS networking and infrastructure patterns. Built with proper VPC architecture using isolated public and private subnets, with services deployed exclusively on ECS Fargate. Features asynchronous message processing through RabbitMQ, with a Node.js API handling requests and a Golang worker processing email jobs. All infrastructure provisioned and managed through Terraform for reproducible deployments. **Key Technical Achievements:** Multi-tier VPC design with NAT Gateway, Application Load Balancer routing, ECS service orchestration, RabbitMQ message queue integration, Infrastructure as Code best practices. **Technologies:** AWS (VPC, ECS Fargate, ALB, NAT Gateway), RabbitMQ, Node.js, **Golang**, Terraform, Docker

## TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Go, Dart Backend: Express.js, Fastify, NestJS, Adonis.js Frontend: React.js, Next.js, Redux, HTML5, CSS3, SCSS, Bootstrap, PWA Cloud: AWS (Lambda, S3, DynamoDB, Cognito, CloudFront, SQS, SNS, EC2), Serverless Framework, CloudFormation, Terraform Databases: PostgreSQL, MongoDB, DynamoDB, Firebase DevOps: GitLab CI, GitHub Actions, AWS CodePipeline, Docker APIs: REST, GraphQL, Hasura, WebHooks, Payment Systems (Stripe, Cielo, Itaú, Mercado Livre) Testing: Jest, Vitest, Testcontainers Tools: Web Scraping, Anti-fraud Systems, Slack Automation

## EDUCATION

Bachelor's Degree in Mechanical Engineering - Discovered passion for software development during internship, leading to career transition into cloud solutions and full-stack development.

## LANGUAGES

- Portuguese (native)
- English (fluent)
- Arabic (fluent)

## CERTIFICATIONS

- [AWS Certified Solutions Architect – Associate](#)