Lays Rodrigues

Software Engineer | Solutions Architect

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SUMMARY

- Experienced IT professional with 5+ years in cloud-enabled backend and infrastructure engineering. Proven track record designing scalable AWS-based solutions and translating business needs into technical architecture. Seeking to drive end-to-end architectural strategy and cross-functional delivery as a Solutions Architect.
- 4x AWS Certified (Cloud Practioner, Solutions Architect Associate, Solutions Architect Professional, Dev Associate)
- Looking to always contribute with the Latam Tech community as an AWS Community Builder and leader of the AWS Rio User Group.

WORK EXPERIENCE

Staff Engineer - Payments

May 2025 - Feb 2026

Banking

- Designed and implemented an AWS tagging policy to improve cloud governance and cost visibility. (AWS)
- Built internal GitHub automation that reduced pull request merge time by ~40%. (Golang, AWS, GitHub)
- Contributed to the design and delivery of a Pix credit platform, enabling customers to pay Pix transfers using credit cards. (.Net, AWS)
- Developed a Golang worker integrated with Kafka to process credit eligibility events and update a core internal API. (Golang, Kafka)
- Processed ~2 million records in 3 months, using batch processing designed to avoid impact on a high-traffic core API. (Golang, Kafka)
- Integrated the new credit limit across backend services and the mobile application, ensuring consistency and reliability. (.Net)
- Led an internal technology community, organizing knowledge-sharing sessions with internal engineers and partners such as AWS and GitHub. (AWS)
- Led the implementation of a new Pix payment method combining customer balance and credit limit, orchestrating integration between two backend APIs and the mobile app.
  Unable to display line. Likely issue: special character not supported.
  6) and improving maintainability and readability. (.Net)

Senior Software Engineer(SWE4)

Aug 2024 - May 2025

Stone Co

Senior Software Engineer (SWE4)

- Architected and delivered robust backend solutions to support high-volume Pix transactions, for Automatic Pix, integrated with the Brazilian Central Bank, ensuring performance, security, and operational reliability (AWS, Golang)

- Support the engineering team to always seek for the best practices while focusing on the business value

Senior Software Engineer
Aug 2021 - Aug 2024

Pagar.me (Stone Co)

Senior Software Engineer (Until Aug/2024)

- Designed and implemented a new authorization platform on Kong Gateway using AWS, Terraform and AzureAD (Terraform, AWS, Kong Gateway)
- Drove technical direction for new products and architectural evolution, incorporating cost and performance trade-offs into design decisions aligned with business needs (AWS, Cloud Architecture, Software Architecture)
- Translated complex requirements into actionable technical epics and stories, enabling cross-functional teams to deliver high-impact features on time (Jira, Confluence)
- Produced clear technical documentation and RFCs, facilitating alignment and knowledge sharing across teams (Documentation, Confluence)

Mid-Level Software Engineer (Until Sep/2022)

- Development of tools and products for our internal clients (Python, AWS, JavaScript)
- Project and build architecture of applications (Software Architecture, AWS)
- Lead the development of Proof of Concepts to back technical decisions
- Built scalable services and infrastructure using AWS and Terraform, integrating CI/CD workflows (GitHub Actions) for reproducible deployments (GitHub, GitHub Actions, CI/CD)
- Development of Infrastructure as Code for our applications (Terraform, AWS)
- Introduced code quality and security practices, improving consistency, reliability, and team confidence in production releases (git, CI/CD)
- Led technical discovery and ecosystem mapping, enabling better insights into inter-service dependencies and evolution paths (Software Architecture, Documentation)

Software Engineer
Apr 2021 - Jul 2021

Zé Delivery

- Development of an Authorization API based on JWT using NestJS with TypeScript and GraphQL. (TypeScript, GraphQL, JWT)
- Created Terraform modules to create and ECS Cluster and deploy ECS Service into it. (AWS, ECS, Containers)
- Integrated Google Workplace SSO with AWS Cognito to use federated login on internal applications. (AWS, Cognito)
- Proof of concept of a build pipeline for Zé Delivery App using GitLab CI/CD. Build improvements were about to save 40 to 50 minutes for the developers based on the current Travis CI pipeline. (Gitlab CI, Yaml, Android, IoS, React)

DevOps Engineer
Nov 2020 - Feb 2021

Sensedia

Consultant

- Analysis of the current Kubernetes infrastructure and generated a report on how to maintain those resources while evolving our applications (Kubernetes, Azure)

- Presented to the development teams the 12 Factor App and how to introduce its good practices on day-to-day work. (DevOps)
- Designed and delivered a new Kubernetes infrastructure using EKS and continuous integration with GitLab CI/CD, with full monitoring on CloudWatch, Prometheus Operator and Grafana. (AWS, EKS, Gitlab CI, Terraform, Ansible, Helm)
- Creation of new AWS accounts under Control Tower exclusively for the R&D team. (AWS)

Software Engineer Dec 2019 - Oct 2020

Cyberlabs

- Designed the cloud-first architecture for KeyApp, an application that had the purpose to be a facial recognition authentication and authorization platform. (AWS, Terraform)
- Developed the KeyApp architecture based on Microservices pattern to run on AWS ECS (Python, NodeJS, GraphQL, Golang, AWS, ECS)
- Designed a multi-account AWS workflow to follow the AWS model of governance using Control Tower and AWS SSO. (AWS)
- Responsible for most of the AWS accounts operations, included governance, security and maintenance. (AWS, Cloud Governance)
- Automated the deployment of all the KeyApp microservices using GitLab CI, while running Code Quality and SAST tests, and requiring unit testing for all applications to improve code confidence within the application. (Microservices, Unit Testing, Gitlab CI, Docker)

Software Engineer Jan 2019 - Nov 2019

Meta

Rede Globo

- Migration of on-premises applications to AWS, to improve costs, development and deploy process. (AWS, Terraform, Gitlab CI)
- Improvements on the workflow that was used for the World Cup in 2018 to be used for others purposes. (Python)

Software Developer Intern Jan 2017 - Dec 2018

Rede Globo

- Automation of tests and deployment of services and applications using Ansible, PyPi and GitLab CI (Python, YAML, Ansible, Linux)
- Development of the 2018 World Cup project, that processed all the videos that were coming from Russia and deliver into our systems for the Journalism and Sports teams to use on the TV Globo channel and others sources. The system processed more than 160 hours of material in a step by step application workflow. (Python, Gitlab CI, Ansible, Linux)
- Maintenance of legacy systems that supported the Journalism teams on day-to-day activities like: Checking the videos that were in the archives, select, cut and process them. (C++, Windows)

EDUCATION

B.S in Information Systems Jul 2017 - Jul 2019

Federal Fluminense University

PUBLICATIONS AND PRESENTATIONS

Automate Away the Toil - AWS re:Invent 2023 2023

https://www.youtube.com/watch?v=KbHzgxIEOgk&t=1s&pp=ygURYXdzIGV2ZW50cyBjb20xMDI%3D

Toil is part of our lives, and we get used to it, but we shouldn't. Toil causes triggered pages. Incidents. Sleepless nights. However, there is a solution in sight: automation. In this dev chat, learn how you can use Terraform modules, Git hooks, and cookie cutters to automate away the toil and let you have peaceful nights of sleep. (AWS, Terraform)

TRAININGS AND CERTIFICATIONS

AWS Certified Developer Associate 2026

https://www.credly.com/badges/b18a9f32-27d3-40dc-bb14-670fb2506321/linked_in_profile

Earners of this certification have a comprehensive understanding of application life-cycle management. They demonstrated proficiency in writing applications with AWS service APIs, AWS CLI, and SDKs; using containers; and deploying with a CI/CD pipeline. Badge owners are able to develop, deploy, and debug cloud-based applications that follow AWS best practices. (aws, amazon web services)

AWS Certified Solutions Architect Professional 2025

https://www.credly.com/badges/883e6195-8160-4448-8a19-1db43b98cfd0/linked_in_profile

Earners of this certification have an extensive understanding of designing technical strategies to accomplish specific business goals. They demonstrated the ability to balance best practices and trade-offs based on business context. Badge owners are able to design solutions across multiple platforms and providers. (aws, amazon web services)

AWS Certified Solutions Architect Associate 2024

https://www.credly.com/badges/c92980f9-3087-4a2b-9a95-2c0c1220ebe5/linked_in_profile

Earners of this certification have a comprehensive understanding of AWS services and technologies. They demonstrated the ability to build secure and robust solutions using architectural design principles based on customer requirements. Badge owners are able to strategically design well-architected distributed systems that are scalable, resilient, efficient, and fault-tolerant. (aws, amazon web services)

AWS Certified Cloud Practitioner 2023

https://www.credly.com/badges/d6c4b704-ad00-4b58-8449-3388c306c809/linked_in_profile

Earners of this certification have a fundamental understanding of IT services and their uses in the AWS Cloud. They demonstrated cloud fluency and foundational AWS knowledge. Badge owners are able to identify essential AWS services necessary to set up AWS-focused projects. (aws, amazon web services)

Uncomplicating Docker 2021

https://www.credential.net/cfa834cb-c6d8-4b5f-a495-73f82ce57a99#gs.e3r17l

After intensive training, this person owns abilities to create images of containers and understand every piece of the Docker's environment moreover install, configure and maintain a Docker Swarm cluster effectively, including skills to solve complex problems using Docker with excellence. (Docker, Docker Swarm, Dockerfile)

Uncomplicating Terraform 2020

https://www.credential.net/407bbb3e-f49f-4608-b47a-324b5763d67c

After intensive training, this person owns abilities to use Terraform to implement and manage an infrastructure as code. During the training, this person performed practical exercises perfectly and showed sufficient skills to use Terraform to help him/her in the infra-as-code journey with excellence. (Terraform, AWS)

Uncomplicating Ansible 2020

https://www.credential.net/e5402f70-b245-4572-a43c-920e251d6555

After intensive training, this person owns abilities to use Ansible to implement and manage infrastructure as code to install, configure and maintain services using Ansible playbooks. He/she learned along the training a lot of technical content, and performed practical exercises perfectly, showed sufficient skills to use Ansible to help him/her in the infra-as-code journey with excellence. (Ansible)

Welcome to the Django 2016

http://welcometothedjango.com.br/

WTTD is a course focused on learning the way to write clean and maintainable code with Python and Django. (Python)

Google Summer of Code 2016

https://gitlab.com/lays147/certifications/-/blob/master/Courses&More/2016%20-%20GSoC.pdf

Contributed within the KDE Community on the Umbrello UML Editor. (C++, Qt, Git)

AWARDS AND ACCOLADES

AWS Community Builder 2022

https://builder.aws.com/community/@lays

AWS Community Builder since 2022 - Via the community, I help to enable people to learn more about AWS and how to apply that knowledge at work. The program also offers a lot of benefits to help me grow in my career as an AWS specialist. (AWS)

TDC Rockstar 2019

https://thedevconf.com/rockstars?

The TDC Rockstar is a recognition of the professionals that contribute to make The Developers Conference the best and greatest event of Technology in Brazil