CAIO MARTINHO DA SILVA, 26

Luso-brazilian, based in São Paulo/Brazil
Remote work within America's (GMT-8) to Europe's (GMT+2) time zone range
linkedin.com/in/caiomarte

GOAL

By deploying a well-architected cloud infrastructure and natively enabling DevOps practices in the application lifecycle, my goal is to build together the solid foundation the business needs to focus on driving customer value by default.

SUMMARY

DevOps-oriented Cloud Engineer and consultant. Over 4 years of experience with Cloud & DevOps in 3 customer facing roles at AWS (BR), IBM (BR), and Caylent (US), and 1 product role at ezyCollect (AU). 4x AWS certified, Bachelor of Computer Engineer, and studying IT for the past 12 years.

FORMAL EDUCATION

Universidade Metodista de São Paulo - São Bernardo do Campo/SP, Brazil
Computer Engineering   **Jan 2017 - Dec 2021**

Reynolds Secondary School - Victoria/BC, Canada
Grade 12   **Aug 2012 - Jan 2013**

PROFESSIONAL EXPERIENCE

Caylent - United States, Remote
Sr Cloud Engineer - Professional Services   **Sep 2021 - Present**
- Together with the Professional Services team, delivering DevOps and Cloud capabilities to customers for new or existing environments and cloud migrations.

ezyCollect - Australia, Remote
DevOps Engineer - DevOps, Product   **May 2022 - Sept 2022**
- Working closely with cross-functional product teams to enable DevOps and Cloud capabilities for fast software release and system security, resiliency, and performance.

AWS - Brazil, Remote
Cloud Architect Intern - AWS Professional Services, Public Sector   **Apr 2020 - Sep 2021**
- Supporting the Professional Services team on architecting and implementing AWS Cloud Solutions, especially for DevOps and cloud orchestration projects.

PROFESSIONAL PROJECTS

CDK-managed EKS Software as a Service **Caylent, Mar 2022 - Current**
Customer wants to launch a Software as a Service based on EKS with namespace networking isolation and on-demand cluster scaling. My job is to create Typescript CDK projects to deploy all required EKS-related resources and configuration, and setup Bitbucket pipelines to automate resource deployment for the EKS and existing serverless projects.

Application migration from Aptible to AWS **Caylent, Sep 2021 - Mar 2022**
Customer wanted to migrate from Aptible- an AWS-based managed cloud platform for HIPAA compliance- to a new AWS environment, and update their existing CI/CD workflow and build job to work on a single-branch approach. My job was to help discover current state and design future state architecture; help build the entire AWS account model and environment infrastructure; and enable CI/CD automation for the new environment and branching strategy. I created most of the base infrastructure Terraform modules, and deployed infrastructure using an environment per workspace approach on Terraform Cloud for better isolation. I updated the existing CI/CD pipeline configuration on CircleCI to enable Helm chart deployments to EKS, helped setup a pipeline to deploy application secrets to Secrets Manager, and helped implement the single-branch, single-image, multi-environment workflow to deploy application code to EKS. I created Bash scripts to facilitate migration and help developers in new day-to-day tasks. In 6 months, we deployed 3 HIPAA-compliant environments- one environment per account, migrated 3 environments, and built 2 pipelines.

CloudWatch Agent deployment automation **AWS, Aug 2021 - Sep 2021**
Customer wanted to optimize application troubleshooting by enabling centralized logging. My job was to create an automated solution to collect application logs from new and existing EC2 instances, and integrate it with the existing centralized logging solution. For new instances, I created a bash script to automatically install and configure the CloudWatch Agent based on a parameter in Parameter Store. The parameter stored the Agent configuration file pointing to the application log path, and sending the logs to a CloudWatch Log Group. Then, I created a Terraform script to launch the instances and bootstrap the bash script as user data, and to create the Parameter Store parameter with the user-provided Agent configuration file. For existing instances, I created SSM documents to automatically install and configure the CloudWatch Agent based on a parameter in Parameter Store. The parameter stored the Agent configuration file pointing to the application log path, and sending the logs to a CloudWatch Log Group. Then, I created a scheduled CloudWatch Event pointing to a Lambda function to trigger the cross-account SSM Automation with user-provided parameters. And finally, a CloudFormation template deploys the solution, and serves as user interface to provide and update automation parameters.

Script translation from CloudFormation to Terraform **AWS, Aug 2021 - Sep 2021**
Customer wanted all Infrastructure as Code scripts to be in Terraform. My job was to lead the project team on converting several CloudFormation templates into Terraform scripts. I enabled the team to start working with Terraform by creating and presenting a quickstart guide, and providing tips on Terraform best practices and how to convert specific

CloudFormation capabilities that aren't natively-supported by Terraform. I also manually translated most of the CloudFormation templates, specially the complex ones, and created a Terraform root module to orchestrate an user friendly, multi-environment deployment.

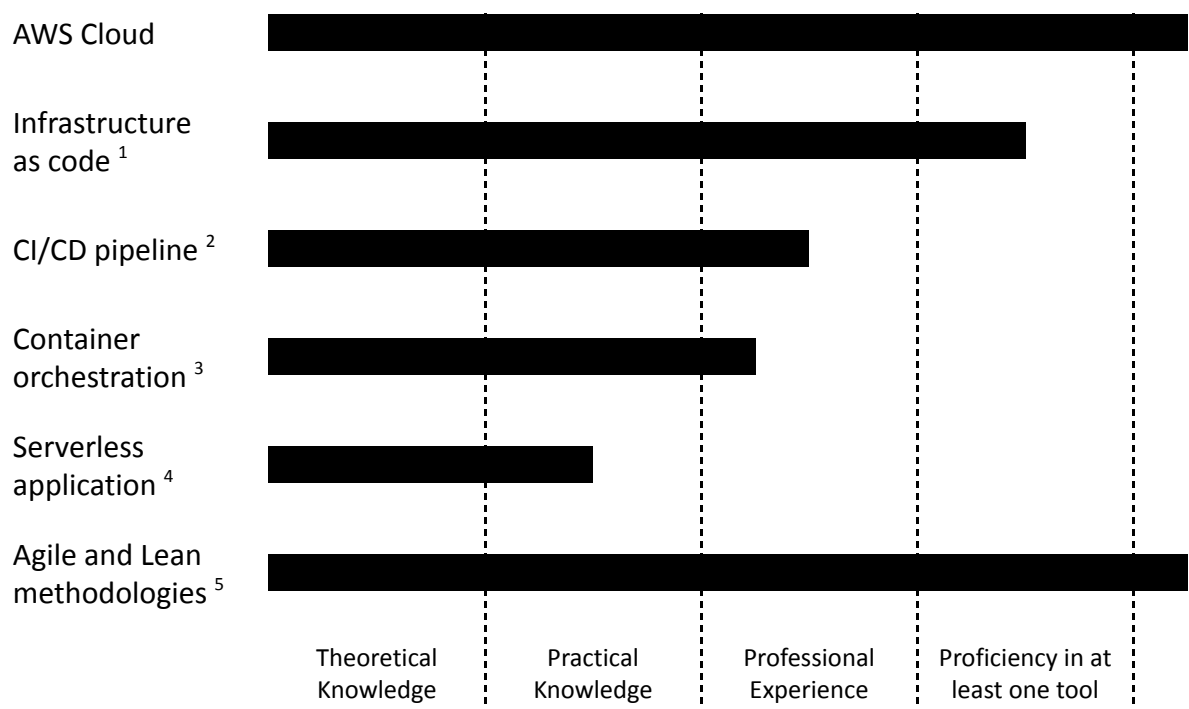*CI/CD Pipeline on Azure DevOps Pipelines deploying to AWS* **AWS, Apr 2021 - Sep 2021**
Customer wanted to set CI/CD pipelines on Azure DevOps Pipelines to accelerate application migration and delivery to AWS, requiring yaml templates to reuse across different projects. My job was to provide a functioning pipeline deploying a React frontend to S3. I validated and adjusted existing templates for CI/CD stages, steps, and jobs, including scripts to invalidate CloudFront distributions and automatically rollback application deployment. I also configured variable groups on Azure DevOps Library for parameters and integrated Azure KeyVault for secrets being consumed by the pipeline.

PROFESSIONAL CERTIFICATIONS

- *AWS Certified DevOps Engineer Professional - In progress*
- *AWS Certified SysOps Administrator Associate - AWS, 2021*
- *AWS Certified Developer Associate* - AWS, 2021
- *AWS Certified Solutions Architect Associate* - AWS, 2020

SKILL ASSESSMENT

Skill	Theoretical Knowledge	Practical Knowledge	Professional Experience	Proficiency in at least one tool
AWS Cloud	████████	████████	████████	████████
Infrastructure as code [1]	████████	████████	████████	
CI/CD pipeline [2]	████████	████████	██	
Container orchestration [3]	████████	██████		
Serverless application [4]	████████	██		
Agile and Lean methodologies [5]	████████	████████	████████	████████

[1] Terraform, CloudFormation, AWS CDK boto3; [2] CodePipeline, Azure DevOps Pipeline, CircleCI; [3] ECS, EKS; [4] Python, Lambda, API Gateway, SQS, DynamoDB; [5] Kanban, Scrum, Working Backwards

SELF-IMPROVEMENT ACTIVITIES

Authorial documentation:
- *"CloudWatch Agent deployment automation", project documentation* - AWS, 2021
- *"CI/CD Pipeline on Azure deploying to AWS", customer documentation* - AWS, 2021
- *CloudFormation scripts and execution guide, customer documentation* - AWS, 2021
- *AWS Landing Zone org and network design, customer documentation* - AWS, 2021

Volunteering:
- *Financial Education, Mathematics and Portuguese Tutor* - Metodista, 2018/2019
- *Project Leader* - Façacontecer, 2018

Competences:
- *Fluent English* - CCAA, 2007/2011