

CAIO MARTINHO DA SILVA, 26

Brazilian, single

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GOAL

Collaborate with businesses on leveraging Cloud and DevOps practices to deliver value to end customers in an adaptable, reliable, and reproducible way.

SUMMARY

Studying about Information Technology since 2010. Experience as Chief Marketing Officer at a social network startup, Hybrid Cloud Technical Sales Intern at IBM, and Cloud Architect Intern at AWS. Currently, I'm a DevOps and Cloud Engineer at Caylent, 4x AWS certified, with professional experience with DevOps and AWS, and a Bachelor degree in Computer Engineering.

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 - Remote

Cloud and DevOps Engineer - Professional Services

Sep 2021 - Present

- Joining the consulting team to provide DevOps and Cloud capabilities to customers for new environments and cloud migrations.

AWS - São Paulo/SP, Brazil

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.

IBM - São Paulo/SP, Brazil

Technical sales intern - IBM Cloud, Hybrid Integration

Aug 2018 - Apr 2020

- Creating demonstration and Proof of Concept (POC) environments of the Hybrid and Multicloud portfolio, especially IBM Cloud Private and IBM Blockchain Platform.

PROFESSIONAL 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. My job was to help discover current state and design future state architecture; build the entire AWS infrastructure; and enable application CI/CD for the new environment. I created most of the base infrastructure Terraform modules, and deployed infrastructure using an environment per workspace approach. I also updated the existing CI/CD pipeline configuration to enable parallel Helm chart deployments targeting AWS, and created several bash scripts to facilitate migration or help developers in new day-to-day tasks. Finally, in less than 4 months we had all required assets to start migrating. Dev has already been migrated in about 2 hours.

CloudWatch Agent deployment automation with Terraform

AWS, Aug 2021 - Sep 2021

Customer wanted to optimize application troubleshooting by enabling centralized logging. My job was to automate application log collection from new EC2 instances, and integrate it with the centralized solution. 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.

CloudWatch Agent deployment automation with SSM

AWS, Aug 2021 - Sep 2021

Customer wanted to optimize application troubleshooting by enabling centralized logging. My job was to automate application log collection from existing EC2 instances, and integrate it with the centralized solution. 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 not natively-supported by Terraform. I also manually translated the most complex CloudFormation templates, and created a Terraform root module to orchestrate a multi-environment deployment.

CI/CD Pipeline on Azure DevOps Pipelines deploying to AWS

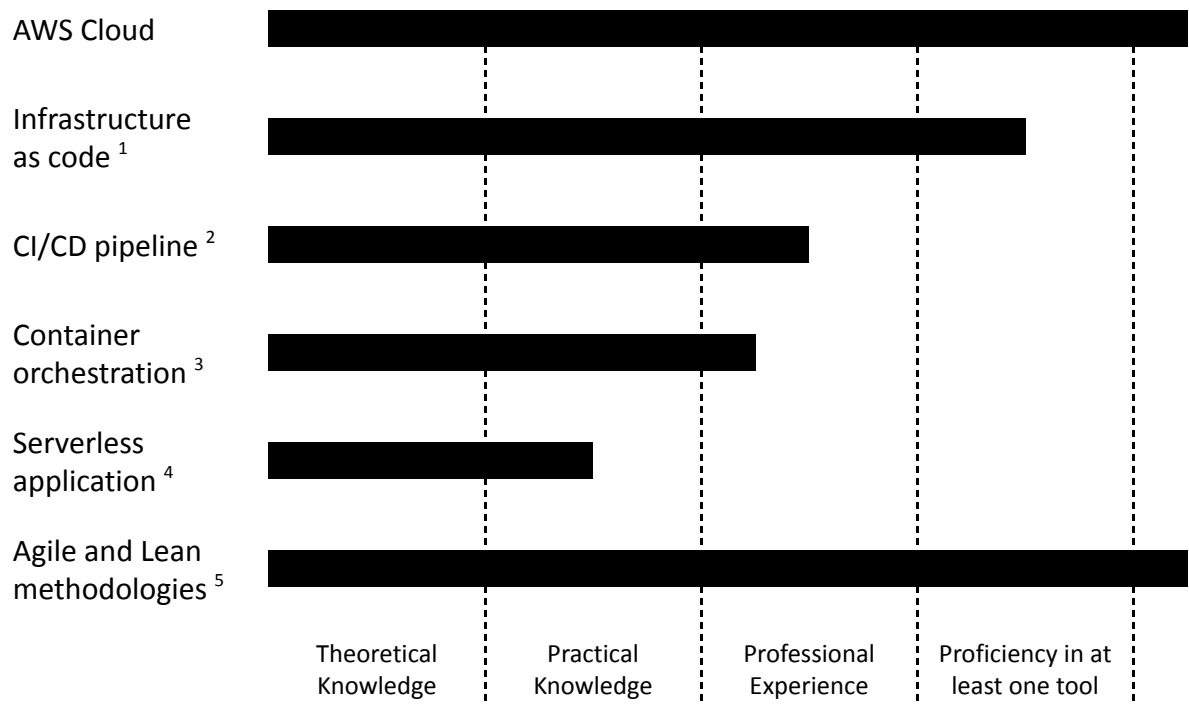
AWS, Apr 2021 - Sep 2021

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



¹ Terraform, CloudFormation, AWS cdk boto3; ² CodePipeline, Azure DevOps Pipeline; ³ ECS, EKS, Kubernetes; 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*