Campinas, São Paulo, Brazil

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Summary_

Senior Software Engineer with 4+ years of working experience specialized on backend development. Skilled at creating and managing scalable services with all major cloud providers using Go, Python and Java. Familiar with DevOps practices and several monitoring, testing and automation tools. Interested in solving problems in the fields of Distributed Systems, Machine Learning and Internet of Things.

Work Experience _

Hash Remote, Brazil

SENIOR SOFTWARE ENGINEER Oct. 2021 - Present

- Built and deployed risk management and fraud detection systems in Go and Python on a GKE cluster using Helm and Istio for orchestration
- · Developed a microservice-oriented application for managing customers' information within the company via gRPC and Google Pub/Sub
- Overhauled a rules engine application to allow rule creation with configurable steps and execution triggers for domain specific validations

· Designed and implemented a third party integration for multi-factor authentication using face recognition and document validation

Daitan Campinas, Brazil

SYSTEM DEVELOPMENT SPECIALIST

Mar. 2021 - Oct. 2021 • Development of a cloud native platform for edge computing based on the open source projects StarlingX and OpenStack using Kubernetes,

- Docker, Armada, Helm, MariaDB and RabbitMQ
- Test development and automation using Python/Pytest, Ansible and Jenkins
- Collaboration with the open source community on the StarlingX/OpenStack projects
- · Java backend development of a logistics platform on AWS with SOAP/REST APIs using Wildfly, Apache Struts, Spring, and Oracle DBMS

Logicalis São Paulo Brazil

SOFTWARE ENGINEER Oct. 2020 - Mar. 2021

- Cloud environment setup for production scale with Azure Kubernetes Service (AKS), Helm and Kong
- Backend development with Python and Java for high performance services using Spring and FastAPI
- Development and deployment of Machine Learning services for OCR and object detection
- · Authorization and authentication flows using OpenID Connect and OAuth with Keycloak

JUNIOR SOFTWARE ENGINEER Jan. 2019 - Oct. 2020

- · Worked in R&D projects and proof of concepts for new market demands in machine learning and computer vision
- · Created and maintained a microservice-oriented API in Flask for facial recognition that integrates with different cloud service providers

Jan. 2018 - Jan. 2019

- · Worked on several projects focused on Machine Learning and Internet of Things using Azure and Logicalis IoT platform Eugenio
- · Developed a dashboard for sentiment analysis on comments made in App Store and Google Play using Microsoft PowerBI and Azure LUIS

Skills_

Programming Python, Go, Java, NodeJs, C++, R

Cloud Providers Azure, Amazon Web Services, Google Cloud Platform

Web Frameworks Flask, FastAPI, Django, Gin, Spring

Machine Learning Tensorflow, PyTorch, scikit-learn, Azure Machine Learning, Amazon SageMaker

Databases PostgreSQL, MySQL, MongoDB, CosmosDB, DynamoDB, Redis, Elasticsearch Miscellaneous Kubernetes, Docker, RabbitMQ, Kafka, Terraform, Jenkins, gRPC, REST, Git, Linux

Languages Portuguese, English

RAFAEL S. FAYAN · RÉSUMÉ JULY 1, 2022



State University of Campinas

Campinas, Brazil

EXTENSION COURSE ON COMPLEX DATA MINING

Aug. 2020 - Jan. 2021

- · Extension program on Data Science and related fields like Data Mining and Analysis, Big Data, Artificial Intelligence and Machine Learning
- · Final project: development of convolutional neural networks for diagnosing patients infected with COVID-19 though images of CT scans

University of Limerick

Limerick, Ireland Jul. 2017 - Aug. 2017

INTERNET OF THINGS SUMMER SCHOOL

- · Hands-on classes with theory and practice learning in different knowledge areas related Internet of Things (IoT) development
- · Final project: smart lock for bicycles with GPS and accelerometer sensors and data processing on Bluemix cloud platform

University of São Paulo

São Paulo, Brazil

BACHELOR'S DEGREE IN COMPUTER ENGINEERING

- Mar. 2014 Dec. 2018
- · Obtained a certificate of proficiency in Embedded Systems for obtaining high scores in courses related to the field Attended a Summer Course on Linear Control Systems with students from Texas A&M University on campus
- Thesis: gait cycle analysis of accelerometer signals for fall risk assessment on elderly people using neural networks and classification models

Certifications, Courses & Awards

CERTIFICATIONS

Oct. 2021 Microsoft Certified: Azure Fundamentals, Microsoft

Oct. 2021 Microsoft Certified: Azure Data Fundamentals, Microsoft

Sep. 2021 Microsoft Certified: Azure AI Fundamentals, Microsoft

Feb. 2019 Exam 774: Perform Cloud Data Science with Azure Machine Learning, Microsoft

COURSES

Dec. 2020 Advanced Architecting on AWS (AWSAA), Fast Lane US

Dec. 2020 Big Data on AWS (BDAWS), Fast Lane US

May 2018 Embedded Linux, Embedded Labworks

May 2018 Yocto Project, Embedded Labworks

AWARDS

Jul. 2021 Certification of Recognition, Daitan Group

Apr. 2017 Third Place - Be an Icon Competition, Siena Idea & CeMEAI

Extracurricular Activity

ADA (Junior Enterprise for Projects in Computer Engineering)

São Paulo, Brazil Sep. 2016 - Oct. 2017

FOUNDER & VICE PRESIDENT

· Outlined the group's strategic planing and managed the team members onboarding, technical growth and allocation

· Developed a music player with dynamic LED illumination based on sound frequency using ARM micro controllers

SEMEAR (Mechatronics and Robotics Group)

São Paulo, Brazil

PROJECT MANAGER

Apr. 2015 - Nov. 2016

- Managed projects roadmap and team members' activities
- Built an access control system using RFID and Arduino devices with a stepper motor attached on mechanical locks
- Implemented an integration software for comunicating embedded devices to Tellit's IoT platform DeviceWise using MQTT

Projects and Contributions

Openstack

Mar. 2021 - Oct. 2021 CONTRIBUTOR

- OpenStack is a free, open source cloud computing platform deployed as infrastructure-as-a-service in public and private clouds
- · Contributed with bugfixes and feature implementation for releases Wallaby and Xena

JULY 1, 2022 RAFAEL S. FAYAN · RÉSUMÉ