Rafael Fayan

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Summary

Bachelor's Degree in Computer Engineering at University of São Paulo, São Carlos, SP. Very interested in Backend/Cloud Development, Internet of Things and Machine Learning. Likes to learn and work with new and emerging technologies whenever possible.

Currently working as a Senior Software Engineer at Hash, with a focus on backend development for risk management and fraud detection on financial and payment services.

Experience



🔟 Senior Software Engineer

Hash

Oct 2021 - Present (9 months +)

- Risk management and fraud detection systems development
- Design and implementation of a third party integration for MFA using face recognition and document validation
- Development of a micro-service oriented application for managing customer's information to comply with KYC policies for financial services
- Development of a rule engine application created with extensibility in mind, allowing rules with configurable steps and execution triggers to be added for domain related validations

System Development Specialist

Daitan Group

Mar 2021 - Oct 2021 (8 months)

- · 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

🔤 Software Engineer

Logicalis Brasil

Oct 2020 - Mar 2021 (6 months)

- 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 facial recognition
- · Authorization and authentication flows using OpenID Connect and OAuth with Keycloak

Junior Software Engineer

Logicalis Brasil

Jan 2019 - Oct 2020 (1 year 10 months)

- Worked in R&D studies and proof of concepts for new market demands in machine learning and computer vision
- Created and maintained a production-ready API for biometric facial recognition integrating different service providers in a microservice architecture

🔤 Software Engineer Intern

Logicalis Brasil

Mar 2018 - Jan 2019 (11 months)

- Worked in several small projects focused on Machine Learning and Internet of Things using Microsoft 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



🙏 Vice President

ADA - Projetos em Engenharia de Computação

Sep 2016 - Oct 2017 (1 year 2 months)

- Junior enterprise focused on applying computer engineering knowledge in real-world projects for companies and organizations
- · Responsible for the group's strategic planing, technical growth and internal management of the associates
- Development of a music player with dynamic LED illumination based on sound frequency using ARM micro controllers
- · Weekly training in electronics and embedded programming



Project Director

SAEComp

Sep 2015 - Aug 2017 (2 years)

- Represents the computer engineer students interests before the university's government
- Responsible for the group's project management using PMBOK and Scrum and Microsoft Excel
- Training of new members and overseeing planning and execution of academic events and activities



Project Manager

Grupo SEMEAR - EESC/USP

Apr 2015 - Nov 2016 (1 year 8 months)

- Extracurricular group focused on mechatronics engineering projects and competitions
- Responsible for managing projects schedules and technical documentation
- Development of an access control system using RFID technology and Arduino
- Development of an algorithm for MQTT communication between embedded devices and Tellit's IoT platform DeviceWise

Education



Universidade de São Paulo

Bacharelado, Engenharia de Computação

Feb 2014 - Dec 2018

- Embedded Systems proficiency certificate
- Summer course on Linear Control Systems with Texas A&M University
- · Undergraduate thesis: machine learning analysis of accelerometer signals captured by gait analysis on elderly people for fall risk assessment using neural networks and classification models

Universidade Estadual de Campinas

Curso de Extensão, Mineração de Dados Complexos

Jul 2020 - Dec 2020

- 5 months extension program focused on Data Science, including topics like Data Mining, Information Retrieval, Data Analysis, Big Data, Artificial Intelligence and Machine Learning
- Final project: development and comparison of classifier models using convolutional neural networks for diagnosing patients infected with COVID-19 though images of chest tomography scans



University of Limerick

Internet of Things Summer School

Jul 2017 - Jul 2017

- · Hands-on classes with theory and practice learning in different knowledge areas related Internet of Things (IoT) development
- Seminars and talks with industry professionals about IoT concepts, main challenges and real-world applications
- Company visits at Dell EMC and Johnson Controls
- Final project: smart lock for bicycles using GPS and accelerometer sensors, MQTT protocol and IBM's cloud platform Bluemix with Node-RED event-driven programming

Licenses & Certifications



Ênfase em Sistemas Embarcados - Universidade de São Paulo

- Linux Embarcado Embedded Labworks
- Yocto Project Embedded Labworks
- Exam 774: Perform Cloud Data Science with Azure Machine Learning Microsoft
- Nvidia Tesla Technical Curriculum (2020) NVIDIA
- Big Data on AWS (BDAWS) Fast Lane US
- Advanced Architecting on AWS (AWSAA) Fast Lane US
- Mineração de Dados Complexos Universidade Estadual de Campinas

- Microsoft Certified: Azure Al Fundamentals Microsoft
- Microsoft Certified: Azure Fundamentals Microsoft
- Microsoft Certified: Azure Data Fundamentals Microsoft

Skills

Python • Go (Programming Language) • Kubernetes • Microsoft Azure • Software Architecture • Software Development • Machine Learning • Computer Vision • Cloud Computing • Data Science

Honors & Awards

- Third Place Be an Icon Competition Siena Idea e CeMEAI Apr 2017
 - Competition between groups of students at USP for developing a product or solution using Beacon technology
 - Third place award for planning and implementing a smart monitoring system for public transportation using data collected through beacon devices