



# Adriano S. Vieira

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## Skills

Leadership	Teamwork	Adaptability	Gumption	Sharing	ICT monitoring
Python	DevOps	Datacenter	Kanban	Scrum	C4 Model
HA	Cluster	SonarQube	KPI	CEntOS/RedHat	Fedora/Debian
Git	Gitlab	Gitlab CI	Codefresh	CI/CD	Datadog
Docker	Rancher	Kubernetes	Containers	Vagrant	Business Continuity

## About me

Enthusiastic in team integration and agility in delivering products, he acts as an influencing agent in the implementation of agile infrastructures and in the internalization of Lean & DevOps practices. He is an ICT professional with over 20 years of experience working and managing teams in Datacenter environments, having worked in the design, analysis, and development of low to high complexity systems such as ERP. He has also acted as the lead of open-source project development (CACIC<sup>1</sup>) and contributes to projects of this nature<sup>2 3</sup>. a^github]. He holds a degree in mechanical engineering and an MBA Business Management.

## WORK EXPERIENCE

**ICT Consultant**, February/2020 .. present - Brazil

- Architectural design of a solution integrated with Claude AI.
- Systems analysis and development in Python, NodeJS, TypeScript, and ReactJS.
- Performance analysis of Python API backend and SQL database service, which reduced database queued requests to zero.
- Implementation of CI/CD and IaC services in the AWS cloud.
- Migration of a client product from DigitalOcean to the AWS cloud.
- Design and implementation of management panels under Grafana and Power BI, consuming data from Elasticsearch and relational databases.
- Training of developers, testers and sysadmins in code versioning, CI/CD, Git, and Gitflow.
- *CI/CD Lessons Learned in Open Source Networking*, Panelist, Santa Clara/CA, USA, **Open Networking Summit**

<sup>1</sup>Configurador Automático e Coletor de Informações Computacionais (CACIC)

<sup>2</sup><https://gitlab.com/adrianovieira>

<sup>3</sup><https://github.com/adrianovieira>

**Tech Lead Radix Engenharia e Software** – Sep/2022 - Nov/2024 – (remote)

- Conducted *one-on-one* (1:1) meetings to mentor employees to improve knowledge and career planning.
- Architectural design in layered and event-driven microservices patterns applying C4 Model methodology for clients in the service and industrial sectors.
- Supervision of engineers, testers and DevOps team members in remote work mode.
- Mentoring coworkers to improve their working knowledge and career planning.
- Directly involved in full-stack systems analysis, review and development in Python-3, Fastapi, Pydantic and Typescript/React integrated into CIAM Auth0.
- Backend development of Python microservices applying hexagonal architecture design pattern.
- Development of FaaS to be deployed on AWS Lambda and Azure Functions to integrate the CIAM Auth0 system, the Web React application and Python API, making access to services more secure.
- Configured backend API to be securely used via AWS Cognito using OAuth2 protocol.
- Implemented connectors on Kafka Connect to stream data to AWS RDS and AWS Aurora.
- Developed producers and consumers in Python, integrating them with Kafka topics to send/get data for business analysts' and product owners' analysis in PowerBI.
- Documented system under OpenAPI-3.0 standard with Stoplight Studio tool and Mule Design and Mule Exchange.
- Developed integrated tests using Pytest (backend) and Vitest (frontend), resulting over 80% coverage (via Sonarqube).
- Responsible for organizing the development and maintenance of production systems using Atlassian Jira (kanban/Scrum) and Datadog services.
- Led an average of 5 systems engineering team members using industry best practices for software development, code quality, and testing.
- Responsible for designing Python and React, Typescript microservices.
- Development of Python microservices integrated into PostgreSQL, Kafka, Redis, Auth0, and Mule Gateway as backend services.
- Supporting engineering team in hexagonal architecture design pattern for microservices development.
- Development of systems test cases supported by tools such as Codefresh-CI, SonarQube, pytest, Playwright, Locust, and K6.
- Responsible for organizing the development and maintenance of production systems on AWS Fargate, FaaS with AWS Lambda and Azure Functions.
- Directly involved in integrating services like WEB, API, RDS/Database, FaaS/Lambda, Kafka, Codefresh, Datadog, Mule Gateway, and Auth0.

**Tech Lead, Zup IT Innovation** – Oct/2021 - Aug/2022 – (Remote)

- Team supervision in remote work mode
- Conducted *one-on-one* (1:1) meetings to mentor employees to improve knowledge and career planning.
- Tech Lead Beagle BFF project (<https://usebeagle.io>)
- Tech Lead RitchieCLI noOps project (<https://ritchiecli.io>)

**Tech Manager NodeJS, Python, Empresa Brasil de Comunicação** – Oct/2020 – Sep/2021 – Brasília/DF, Brazil

- Mentoring employees to improve knowledge and career planning using blog content production and *one-on-one* (1:1) meetings as supporting tools
- Team supervision in remote work mode
- Directly involved in the design of the management panel service and its deployment

architecture to support decision making.

- Design and support in determining the architecture of systems implemented in Java, Javascript, Python
- Responsible for coordinating the integration of both systems' development and infrastructure, reviewing deployment architectures, static and functional tests
- Responsible for designing NodeJS/Javascript systems
- Full-stack development of system using SPA/VueJS as frontend, NodeJS/Javascript API as backend, and ORM Sequelize on PostgreSQL
- Development of systems tests case supported by tools such as Insomnia, Gitlab/CI, SonarQube, Mocha/ChaiJS, Cypress
- Directly involved in systems' integration with chat service via the development of Javascript bots or webhooks
- Support developers teams (Java, Javascript) in diagnosing and solving anomalies in living systems and integrations
- Accountable for structuring documentation portal and generating content related to systems' development standards and infrastructure automation using asciidoc
- Accountable for documenting system under OpenAPI standard with Stoplight Studio tool support
- Assist in the design and development of automation codes for infrastructure deployment (InfraAsCode)
- Guidance and implementation of support decision panels dashboards under Grafana and PowerBI consuming data from Elasticsearch, DBMS Banks, and monitoring services
- Propose and sponsor improvements in systems development management processes and infrastructure integrations

**Tech Leader NodeJS, Python, IaC, Empresa Brasil de Comunicação** – Sep/2018 to Oct/2020 – Brasília/DF, Brazil

- Employee mentoring for knowledge improvement and career planning using, for example, Dojo/Kata as a support tool.
- Team supervision in remote work mode.
- Responsible for organizing the development and maintenance of production systems.
- Lead systems development team using industry practices for code quality and testing.
- Design and support in determining the architecture of systems implemented in Java, Javascript, Python.
- Responsible for designing Python systems.
- Development of Python application using PostgreSQL or NoSQL/Elasticsearch, and dashboards creation on Kibana or Grafana.
- Responsible for designing a computer vision system in Python, PyTorch, FastAI for content analysis in TV broadcasting.
- Directly involved in the analysis and development of a computer vision system in Python for analysis of TV broadcasting content.
- Systems development utilizing Javascript, Python and Go Lang languages.
- Directly involved in full-stack systems analysis and development referencing best practices and testing/QA methods.
- Development of systems tests case supported by tools such as Insomnia, Gitlab-CI, SonarQube, Mocha, ChaiJS, Cypress.
- Leadership of development teams concerning CI/CD implementation, tests/QA, and automated deployment of systems.
- Supervision and support to teams meanwhile implementing the pipeline for the complete application cycle (example: test/QA, release, deploy) and using tools such as Gitlab-CI, Sonatype Nexus, Rancher, Kubernetes, and Ansible.

- Support the design and development of automation codes to deploy infrastructure (InfraAs-Code).
- Management of infrastructure operations automation and development supported by tools such as Ansible, Kubernetes, Helm Chart.
- Supervision of operations for Kubernetes as a Service cluster using Rancher and Kubernetes tools.

**Project Manager, Dataprev**, May/2010-June/2018 - Brasília/DF, Brazil

**Leader Developer, Projeto CACIC** – *Open-source tool for ICT System Inventory*, April/2007 - April/2010

**IT Operations Manager, Politec -> Indra Company**, May/2009 - April/2010 – Brasília/DF, Brazil

**Software Engineer, Politec -> Indra Company**, September/2006 - May/2009 – Brasília/DF, Brazil

**Software Engineer, Aethra Componentes Automotivos**, July/1992-October/2005 - Betim/MG, Brazil

**Software Developer Mid-level, Micro Universo Informática**, Setembro/1990-Junho/1992 - Belo Horizonte, MG/Brazil

**Software Developer Junior, Vitória Passos Informática**, July/1989-August/1990 - Belo Horizonte/MG Brazil

**Internship Software Developer, RFFSA Rede Ferroviária Federal** - Belo Horizonte/MG, Brazil

**Computer Typist and Software Developer, Planex Engenharia** - Belo Horizonte/MG Brazil

## EVENTS

I've had opportunities to conduct forums/conferences/lectures open to the general public, such as:

- **2º DevOpsDays Brasília**, 2017 – member of the organizers team, Brasília/DF, Brazil
- **Open Networking Summit 2017**, 2017 – Panel Discussion: CI/CD Lessons Learned in Open Source Networking - Panelist, Santa Clara/CA, USA
- **1º DevOpsDays Brasília**, 2016 – member of the organizers team; speaker of an open-space *Gitlab-CI+Rancher*, Brasília/DF, Brazil
- **58º Fórum de TIC da Dataprev**, 2014 – Soluções de Big Data – member of organizers team, Brasília/DF, Brazil
- **56º Fórum de TIC da Dataprev**, 2014 – DevOps: Comunicação, colaboração e integração para a entrega contínua e operações estáveis em TIC – member of organizers team, Brasília/DF, Brazil

## AWARDS

- **I Prêmio Ação Coletiva - FISL 9.0** - by Association of Software Free and Ministry of Planning, Budget and Management (Associação do Software Livre e Ministério do Planejamento Orçamento e Gestão)
- **II Prêmio Ação Coletiva - Latinoware 2008** - by Foundation Itaipu Technological Park and the Ministry of Planning, Budget and Management (Fundação Parque Tecnológico Itaipu e Ministério do Planejamento Orçamento e Gestão)

- **III Prêmio Ação Coletiva – Convenção SPB 2009** - by Association of Open Technology (ATA), Intel® and the Brazilian Portal for Public Softwares (ATA-Associação de Tecnologias Abertas (ATA), Intel® e Portal de Software Público Brasileiro)

## OTHER COURSES

- **Big Data 101** - by Cognitive Class (<https://courses.cognitiveclass.ai/certificates/c84511fa6a0d4c3c8284abb562a5518c>) – January/2018
- **Hadoop 101** - by Cognitive Class (<https://courses.cognitiveclass.ai/certificates/a5854b8c96d6486596a2da37771dcbbc>) – January/2018
- **Direito Digital** (Digital law) – by PPP Advogados – 30h – September/2016
- **Leadership Desenvolment and Improment** – Manager Assessoria em Recursos Humanos – (Jul 2002 to Sep 2002)
- **Industrial Custs** – Centro de Treinamento e Ensino RHEA – (Nov 2000)
- Project Management, COBIT, ITIL, Multi-agent systems, Windows Server, Linux Redhat and SUSE Linux

## CERTIFICATIONS

- **ITIL Foundation** – by Prometric/EXIN, registry #: SA 7LAM 5005

## LANGUAGES

**English:** Advanced | **Spanish:** Basic | **Portuguese:** Native

## ACADEMIC STUDY

- **2004 MBA Business Management** – Fundação Getúlio Vargas, Brazil
- **2000 Mechanical Engineering** – Pontifícia Universidade Católica de Minas Gerais, Brazil

## OTHER ACTIVITIES AND VOLUNTEERING

- **CACIC project** - *open-source agent based inventory system to make the diagnosis of the computational park*, Lead Developer – April/2007 to April/2010, Brazil
- Social Project of a neighborhood church for social and digital inclusion – Member of the Volunteers Team – 2005/2006 – Camargos/BH, Brazil
- lectures, taught courses and training for managers, leaders, analysts and the general public – 1995/2004; ERP modules (MRP, finance, accounting etc) – 1993/2004; Working in group and its tools – 2004
- Author of article: *Espírito Livre* magazine, ed 10, available at: <http://tiny.cc/EspiritoLivreMagazine>
- Code sharing and contributions:
  - Gitlab: <https://gitlab.com/adrianovieira>
  - Github: <https://github.com/adrianovieira>
  - Speakerdeck: <https://speakerdeck.com/adrianovieira>

- Docker images: <https://hub.docker.com/r/adrianovieira/>
- Vagrant Boxes: <https://app.vagrantup.com/adrianovieira>; <https://app.vagrantup.com/entlinux>
- Software Público Brasileiro (as harpiain): <https://softwarepublico.gov.br/gitlab/cacic>
- Sourceforge (as harpiain): <https://sourceforge.net/u/harpiain>