

Senior Customer Engineer at Google

Software Engineer and Architect

Vitor de Araujo Vieira

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I am an accomplished Senior Software Engineer and Architect with a proven track record of driving digital transformation for large-scale enterprises. Currently serving as a Customer Engineer at Google, I specialize in scaling cloud-native ecosystems and implementing high-impact AI solutions, such as the transition of flagship systems to Gemini models.

My background combines deep technical mastery evidenced by my Red Hat Certified Architect (RHCA) status with a commitment to innovation, supported by specialized training in Deep Neural Networks from MIT and ongoing Master's research in robotics-focused AI.

Core Competences: Customer engagement, Account scaling, Design and Implement large Production ready AI systems, Large scale softwares Design

Core Technologies: Google Cloud Platform, Vertex AI, LangChain, LangGraph, Pytorch, C, C++, Rust, NodeJs, React, Java, Quarkus, Golang, OpenShift, Kafka, Python

Experiences

Google / Customer Engineer

2024 - Present

At Google, I spearheaded the digital transformation for multiple Public Sector accounts. Where in cases scaling some accounts from a greenfield state to a consistent \$800k monthly consumption. During my time on Google, I also orchestrated the implementation of the largest AI education use case, demonstrating the power of Google's AI ecosystem to transform learning at scale.

In the private sector, I successfully penetrated the Afya account previously dominated by AWS and Microsoft becoming a trusted technical advisor within just four months. This strategic partnership led to a major migration of their primary systems from OpenAI to GCP, and the transition of their flagship "Whitebook" assistance system to Google's state-of-the-art Gemini models.

Technologies: Google Cloud Platform, Gemini, Vertex AI, CloudSQL, Google Gemini Enterprise, Bigquery, CCloud Run, Vertex AI Pipelines, Langchain, ADK, Pytorch

Redhat / Senior Middleware Consultant

2022 - 2024

As a Consultant at Red Hat, I spearheaded cloud-native adoption for major Brazilian enterprises by leveraging open-source innovation to transform legacy architectures. A standout achievement during this tenure was architecting and implementing the second-largest Kafka deployment in Brazil for Banco do Brasil, running entirely on OpenShift. My work focused on bridging the gap between traditional infrastructure and modern, scalable ecosystems, ensuring high-throughput data streaming for one of the region's largest financial institutions.

At Bradesco, I led the architectural recovery and stabilization of their OpenShift environment, transforming "messy" unmanaged clusters into a governed, high-performance platform. I achieved this by enforcing container best practices and developing custom tools and CI/CD pipelines that streamlined the developer experience. Furthermore, I served on the ANP Rapid Response Team following a critical system breach, where I performed forensic analysis to identify outdated systems and security vulnerabilities, successfully hardening their infrastructure against future threats.

Technologies: Kafka, Istio, PGCrunch, 3Scale, Openshift, Redhat Open Datascience, JBoss, RHEL, NodeJS and Java

Globalweb / Software Architect , DevOps Lead

2017 - 2022

Helped Caixa Econômica Federal on the DevOps transformation for mission-critical lottery systems, driving the modernization of legacy development cultures and workflows. I architected and implemented automated CI/CD pipelines, integrating static code analysis (SAST) to ensure high-security standards and code quality. Currently leading a high-impact strategic migration from IBM ClearCase to Git, reducing technical debt and enabling a more agile, collaborative engineering environment.

Technologies: Jenkins, Azure DevOps, Python, Bash, SonarQube, Fortify, Okd and Istio

2018 - Started as a Developer and was promoted to Architect for the national lottery web solution. This platform currently supports over 100 million active users and handles up to 200,000 transactions per minute. I led the challenging integration of legacy systems by developing modern REST APIs and alternative integration layers, overcoming the limitations of outdated technologies to ensure a scalable, modern web presence

Technologies: Java, EJB, IBM MQ, EasyRest, AngularJS, DB2, JBoss, MainFrame, OpenJPA, Quarkus and Okd.

2017 - Designed and implemented a comprehensive, end-to-end security system—encompassing frontend, backend, and firmware—for a high-security, two-step branch opening process utilizing biometric authentication and camera integration. This solution was strategically developed to mitigate the risk of manager kidnappings by automating critical security protocols that were previously handled manually or by legacy systems lacking centralized business logic. The software enables real-time communication via sockets to interface seamlessly with the bank's existing hardware infrastructure.

Technologies: NodeJS, EmberJS, PostgreSQL, Python and C++

Akuntsu / Co-Founder

2016 - 2018

Co-founded a technology startup specializing in residential access control and surveillance solutions. Directed the selection of the technology stack and architectural roadmap while serving as a core software developer.

Technologies: AngularJS, Docker, KongAPI, NodeJS, MongoDB, ODB, C++14, RestBed, SQLite, Assembly ARM.

Army Command Central of Brasilia / Scholarship

2014 - 2015

Engineered and implemented a Command and Control (C2) application specifically designed for embedded hardware on armored vehicles.

Technologies: Python, CouchDB, NodeJS

Education

Universidade de Brasília / Master's degree

2024 - Current

Developing a Hierarchical Finite State Machine (HFSM) centric algorithm to optimize tool selection and workload management for Generative AI in robotics.

MIT / Data Science Engineer Micro Degree

2024-2025

MIT / Deep Learning: Mastering Neural Networks

2022-2023

Universidade de Brasília / Bachelor's degree

2011 - 2014

Graduated with honors as a computer engineer in 2014, one year early and also awarded the best student of the year.

Unyleya / Postgraduate degree

2019 - 2019

Post graduation in Big Data and Data Mining.

IESB / Postgraduate degree

2020 - 2021

Post graduation in mobile development.

Awards / Certifications

Databricks Fundamentals

By Databricks - 2026

Google Professional Cloud Architect

By Google - 2025

Professional Certificate in Data Engineering

By MIT - 2024

RHCA - Red Hat Certified Architect (Middleware focus)

By Red Hat - 2023

Deep Learning: Mastering Neural Networks - MIT

By MIT - 2023

Book Chapter of Java EE

JORNADA JAVA - 1ªED SNB 9786588431214 - 2020

Paper presentation International Conference on Informatics in Control, Automation and Robotics, 2014, Vienna, with a HPFSM approach to control UAVs

On ICINCO - 2014

Best implementation award on Cotidiado Machine Learning Hackathon.

By Cotidiano - 2018

2° Place at Serpro Fraud Detection Hackathon

By Serpro - 2019

Oracle Certified Professional, Java SE 6 Programmer

By Oracle - 2018

Honor mention on 20° scientific Initiation Congress

By University of Brasília - 2012

Others projects

Federal Police / Scholarship

2012

Technologies: Java, Swing, Carrot, Apache Lucene, NLP

Tcu - Tribunal de Contas da União / Internship

2013

Technologies: Java, Oracle Database

LightBase / Scholarship

2015, Brasília/DF

Technologies: Python, PostgreSQL

ePartido / Project

2020, Brasília/DF

Technologies: Docker, Docker Compose, Quarkus, Google Cloud, React, Java 11, Kubernetes, Istio, Azure DevOps, React Native.