

Karliwson Oliveira

Architect DevSecOps Lead & Solutions Architect

SUMMARY

- DevSecOps Lead & Solutions Architect with 21+ years in multi-cloud (AWS, GCP, Azure) infrastructure, specializing in Kubernetes, Terraform, Pulumi, and CI/CD automation.
- Expertise in building agentic AI and LLMOps platforms, including AzureAI Foundry for financial and healthcare domains.
- Proven track record delivering scalable, high-availability architectures using Kubernetes, ECS Fargate, and Cloud Run.
- Led architecture and delivery for major clients like Okta, Starbucks, and Rede Globo, managing cross-functional teams and budgets.
- Strong background in backend development with NestJS, Next.js, GraphQL, and Postgres, integrating complex fintech and healthcare systems.

TECHNICAL SKILLS

Main Technical Skills	Kubernetes, Terraform, AWS, Azure, GCP
Programming Languages	Java, JavaScript
AI & Machine Learning	AI, LLM
JavaScript Frameworks	NestJS, Next.js
Security	Cybersecurity, Federation
Databases & Management Systems / ORM	Oracle Database, PostgreSQL, Snowflake
Cloud Platforms, Services & Computing	AWS, Azure, CloudFlare, GCP, Vercel
Amazon Web Services	AWS ALB, AWS Amplify, AWS API Gateway, AWS CloudFront, AWS CloudWatch, AWS ECS (Amazon Elastic Container Service), AWS Elastic Kubernetes Service (EKS), AWS EventBridge, AWS Fargate, AWS Route 53, AWS SES
Azure Cloud Services	Azure Services
Google Cloud Platform	Cloud run
Industry Domain Experience	Ecommerce, Embedded, Fintech, Healthcare
Web/App Servers, Middleware	Apache HTTP Server
SDK / API and Integrations	API, AWS API Gateway, GraphQL, MCP, Stripe



Platforms	ATG, Microsoft, Okta, SharePoint, WordPress
Deployment, CI/CD & Administration	CI/CD, DevOps, DevOps practices, DevSecOps, Hashicorp, Pulumi
Blockchain and Decentralized Software	Foundry
Version Control	Github Actions
Methodologies, Paradigms and Patterns	IaC, SDLC
Virtualization, Containers and Orchestration	Kubernetes, Terraform
Soft Skills	Leadership
QA, Test Automation, Security	Silicon
Other Technical Skills	AD, Agentic AI, Amazon Elastic File System, AWS EFS, Backend, Cloud platform, Core, Financial Analysis, Financial Services, Infrastructure as Code, LangSmith, Lithic, LiveKit, Monitoring, Next, Payment, Plaid, Software Architect, Software Development, SVB, Web Development, website

WORK EXPERIENCE

DevSecOps Lead - Myriad360 (Finance Agent on AzureAI Foundry)

Duration: Jan 2025 – present

Summary:

- Built a production finance agent on AzureAI Foundry for ad hoc financial analysis comparing clients, partners, and periods, grounded on SharePoint and Snowflake with LLM-based reasoning and actionable insights
- AzureAI Foundry is a Microsoft platform for building AI-powered applications with integration to Azure services

Responsibilities:

- Owned architecture and delivery alongside finance, platforms, and data leads.
- Set Infrastructure as Code (IaC), CI/CD, and monitoring standards used by 6 engineering teams.
- Embedded DevSecOps practices into the software development lifecycle (SDLC).

Technologies: AzureAI Foundry, SharePoint, Snowflake, LLM-based reasoning, IaC, CI/CD, monitoring

Senior DevOps Engineer - Myriad360 (Production Infrastructure and Website Migration)

Duration: Dec 2023 – Dec 2024



Summary:

- Managed production infrastructure on AWS including ECS Fargate, ALB, CloudFront, EFS, and CloudWatch, plus Cloudflare
- Migrated WordPress on Apache to Next
- js on Vercel, reducing infrastructure costs by about 30%

Responsibilities:

- Operated and maintained production infrastructure on AWS and Cloudflare.
- Led migration of website from WordPress on Apache to Next.js on Vercel.
- Optimized infrastructure costs and performance.

Technologies: AWS ECS Fargate, ALB, CloudFront, EFS, CloudWatch, Cloudflare, WordPress, Apache, Next.js, Vercel

Senior Software Architect & Engineer - GoodCash (Credit Product Backend and Infrastructure)

Duration: Oct 2022 – Nov 2023

Summary:

- Built the core backend and Google Cloud Platform (GCP) infrastructure for a credit product, provisioned with Terraform
- Designed a custom ledger and integrated payment and financial services including Lithic, Plaid, Stripe, and Silicon Valley Bank (SVB)

Responsibilities:

- Architected core backend and cloud infrastructure for a fintech credit-building product.
- Provisioned and managed a secure GCP infrastructure entirely through Terraform.
- Engineered a custom ledger system from scratch to handle transaction history, balance tracking, and strict financial reconciliation.
- Led critical integrations with 3rd-party financial gateways including Lithic, Plaid, Stripe, and SVB.

Technologies: GCP, Terraform, Lithic, Plaid, Stripe, SVB, custom ledger

Principal Software Architect - Avenue Code (Ecommerce Platform Modernization for Backcountry and Other Clients)

Duration: Nov 2021 – Sep 2022

Summary:

- Led technical architecture, execution, and delivery for client projects including Okta, Starbucks, Rede Globo, and Backcountry.
- Architected and led the delivery of Backcountry's global e-commerce modernization, contributing hands-on while partnering with the client's CTO, management, and engineering teams to migrate a legacy Oracle ATG platform serving customers across three continents to Next.js, NestJS, GraphQL, and Amazon EKS.
- Designed software and cloud architectures and led engineering teams through implementation and production delivery.

Technologies: NestJS, GraphQL, Next.js, Postgres, Amazon EKS, Oracle ATG, Java



Technical Manager - Avenue Code (Architecture, Delivery, and Mentoring for GAP, SquareTrade, and Tory Burch)

Duration: Mar 2021 – Nov 2021

Summary: Provided architecture, delivery oversight, and mentoring for projects involving clients GAP, SquareTrade, and Tory Burch.

Responsibilities:

- Architected solutions and oversaw delivery for client projects.
- Mentored engineering teams to improve practices and delivery.

Lead Software and DevOps Engineer - inBolso (Software and DevOps Engineering)

Duration: Nov 2019 – Feb 2021

Summary: Standardized the company's entire software delivery lifecycle using modern DevOps and Agile practices, while remaining heavily hands-on in the core engineering and architecture.

Responsibilities:

- Microservices Migration: Led the architectural transition of the core platform from a legacy PHP/Laravel monolith into a scalable Node.js microservices architecture.
- Product Development: Architected and developed a proprietary SaaS Call Center solution from the ground up.
- Data Strategy: Architected and implemented the company's overarching data strategy, including a new Real-Time Analytics platform and Data Lake solution.

Mobile Engineer - inBolso (Mobile Engineering)

Duration: Nov 2018 – Oct 2019

Summary: Worked as a mobile engineer developing mobile applications for inBolso.

Responsibilities:

- Developed and maintained mobile applications.

Co-founder and Tech Lead - DevSix Tecnologia (Technology Leadership and Development)

Duration: Sep 2008 – Dec 2019

Summary: Co-founded DevSix Tecnologia and served as technical lead, overseeing technology strategy and development.

Responsibilities:

Bootstrapped and ran a software business for over a decade, providing systems architecture and technical consultancy across Finance, Retail, and Mining verticals.

- Led engineering teams of up to 12 developers across dozens of client projects.
- Bridged the gap between business requirements and technical execution, designing systems tailored directly to client ROI.



Lead Developer - Alcoa (Software Development)

Duration: Nov 2007 – May 2008

Summary: Served as lead developer at Alcoa, a global aluminum producer.

Responsibilities:

Led a team of 8 developers in the implementation of a large-scale Asset Management application for an internal corporate intranet written in PHP.

- Intranet Architecture.
- Development of an Asset Management application.

Lead Web Developer - OneUp (Web Development)

Duration: Feb 2006 – Aug 2007

Summary: Led web development projects at OneUp.

Responsibilities:

- Refactored and modernized an ERP solution for the Banking industry, leading a team of 6 developers.
- Lead developer for ERP solution.
- Technical recruitment advisor.

Web Developer - OneUp (Web Development)

Duration: Jul 2005 – Jan 2006

Summary: Worked as a web developer at OneUp.

Responsibilities:

- Developed web applications and websites.

Independent Consultant, Adviser - Zelo Health (Multi-cloud Terraform Infrastructure and Partner Tools for Caregiver Product)

Duration: May 2026 – present

Summary:

- Developed multi-cloud infrastructure using Terraform for production services on GCP and AWS
- Built partner tools for a caregiver product integrating Zocdoc booking, Duckbill job handoff, Google Drive, and Gmail connectors, with LangSmith tracing to improve CI times

Responsibilities:

- Provisioned and managed multi-cloud infrastructure on GCP and AWS.
- Implemented GitHub Actions with workload identity federation to secure CI/CD pipelines.
- Developed integrations for partner tools used in caregiver product.
- Optimized CI gateway times from about 10 minutes to 3 minutes.



Technologies: Terraform, GCP (Cloud Run, MCP, LiveKit), AWS (Amplify, SES, Route 53), GitHub Actions, Workload Identity Federation (WIF), Zocdoc, Duckbill, Google Drive, Gmail, LangSmith

EDUCATION

- **Johns Hopkins Whiting School of Engineering**
Certificate in Artificial Intelligence and Agentic AI Engineering — in progress
Started 2026
- **PUC-PR**
Graduate programs in Software Architecture, Data Science, and Cybersecurity
2021–2023
- **Universidade Federal do Tocantins**
Bachelor of Computer Science
2015–2018

CERTIFICATION

- **AWS Certified Solutions Architect Associate**
June 2022
- **HashiCorp Certified Terraform Associate**
July 2022

