

Lucas Alvarenga

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Education

Universidade Estadual de Londrina
Economics Undergraduate

2020 – 2024
Londrina, Brazil

Experience

Calriz

Cloud Architect

Nov 2023 – Present
São Paulo, Brazil

- › Participated in very diverse projects involving AI, InfoSec, Data Anonymization and Cloud Migration;
- › Delivered Infrastructure as Code (IaC), IaaS and SaaS solutions as well as Minimum Viable Products (MVPs) using tech stacks such as Next.js, React and Express;
- › Created and worked with reference architectures for data pipelines and fullstack applications;

Calriz

Junior Cloud Architect

Apr 2022 – Nov 2023
São Paulo, Brazil

- › Various projects focused on public education, infrastructure modernization, digitalization and accessibility;
- › Participated in key processes of the Moodle on GCP offering, as well as the migration of 70k+ Moodle users from AWS to GCP;
- › Delivered Infrastructure as Code (IaC), IaaS and SaaS solutions;

FullstackEAD

Cloud Architecture Consultant

Mar 2023 – Present
São Paulo, Brazil

- › Consulting services for the adaptation and migration of full-stack applications to Google Cloud;
- › Declarative resource creation with Terraform;
- › Use of best practices and adherence to security guidelines;

Projects

Moodle on GCP

- › >70% overall cloud infrastructure cost reduction for clients;
- › Infrastructure modernization, creation of dockerfiles following best practices;
- › Automatic infrastructure provisioning with Terraform;
- › Creation of GitHub and GitLab CI/CD pipelines for quick deployment and ease-of-use;

AI Course Generator

- › Significant improvement in the time it takes for stakeholders to generate course content in Moodle;
- › Plugin written in JSX and PHP that generates course content with AI;
- › Integrates with Vertex AI APIs;
- › Multimodal solution allowing for audiovisual output;

Custom Operating System

- › A side project that sets up a 32-bit x86 environment and runs custom kernel code;
- › Implemented in C and x86 Intel Assembly;
- › Uses a raymarching algorithm to display custom graphics on any VGA-compatible graphics adapter;

Skills

Hard Skills Cloud Infrastructure, Kubernetes, JS/TS, PHP, YAML (CI/CD), SysAdmin (Unix);

Soft Skills Interpersonal Relationships, Time Management, Entrepreneurial Mindset, Industriousness;