

# Lucas Alvarenga

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in 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;