

Luiz Correia

BACKEND ENGINEER · SECURITY EXPERT

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“Be the change that you want to see in the world.”

Summary

Current Backend Engineer at start-up company Rethink.

10+ years experience specializing in civil engineering analysis software, embedded systems, backend development, infrastructure automation, and computer security

Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

I believe that creative technologies are indistinguishable from works of art.

Education

Estácio de Sá

BTECH. IN SYSTEM ANALYSIS

- Half graduation executed on Pontifícia Universidade Católica de Minas Gerais

Divinópolis, Brazil

2015 - 2019

Skills

DevOps AWS, IaC, CI/CD, Jenkins, Sonar, Github

Back-end Express.js, Django, .NET Core, REST API

Front-end Redux, React, GatsbyJS, HTML5, LESS, SASS

Programming Node.js, Rust, Python, C/C++, C#, LaTeX

Languages Portuguese, English

Experience

Rethink/Smiles

BACKEND ENGINEER

- Designed an overall service architecture and pipelines of micro-services architecture.
- Implemented several API microservices in Node.js and in the serverless AWS Lambda functions.
- Deployed a centralized logging environment(ELK, CloudWatch, AWS X-Ray) which gather log data from lambdas and AWS resources.
- Designed the Smiles Frump, a simple nodejs lib that automatically captures unhandled errors thrown by lambda functions and formats output response based on a defined schema.
- Designed a nodejs module that mask sensitive information from given JSON (objects / arrays) using functional programming style, and pure functions.

Minas Gerais, Brazil

Nov. 2020 - Present

Meu Locker

FULL STACK DEVELOPER

- Implemented RESTful API server for locker booking application(Meu Locker in Google Play).
- Built and deployed overall service infrastructure utilizing Docker container, CircleCI, and several AWS stack(Including EC2, ECS, Route 53, S3, CloudFront, RDS, ElastiCache, Redis, Lambda, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Developed an easy-to-use Payment module which connects to major PG(Payment Gateway) companies in Brazil.

Minas Gerais, Brazil

Aug. 2018 - Nov. 2020

Meatballs Digital Brunch

ENTREMETIER DEVELOPER

- Full Stack developer, building and creating awesome things, Meat- balls is a kitchen of ideas where the ingredients are art and tech- nology.
- Build hardware and software integrations to give live to a bunch of experiences.
- Consulting in the development of automation systems and embed- ded systems, microcontroller programming and development of man- machine interface.
- Projects: Unimed Juntos Inovamos, Interactive Smell System Tools, artReality

Minas Gerais, Brazil

Jan. 2010 - Present

Strata Engenharia

SYSTEM ANALYST DEVELOPER

Minas Gerais, Brazil

Jul. 2011 - Out. 2014

- Designed the AMS(Automated Marker System), an automated system that marks the road with pre-programmed spacing (or staking) by painting the lane; with paint road marking automatically in two colours, while the vehicle is in motion. The system is based on a mechanical-hydraulic assembly that shoots ink on the pavement based on the DMI.
- Implemented computing algorithms in a C# to analyse road surveys, like FWD (Falling Weight Deflectometer), IRI (International Roughness Index), Visual Condition Surveys.
- Designed the hardware and the software from the MCSS (Multi Cam Survey System), a vision system based on high-resolution cameras, digital odometer (Encoder), Aided GPS (INS) and barometer. The design has three main objectives: high resolution; high-quality images at highway speed by controlling exposure value and shutter, precise positioning, and triggering intervals through independent triggering channels; and various image formats at the same high resolution.
- Designed a unified platform to get information from sensors like GPS, INS, encoder, barometer, etc. Using a fast, secure and structured protocol.

Extracurricular Activity

Comunidade Servos da Cruz

VOLUNTIER

Minas Gerais

Sep. 2016 - PRESENT

- Designed a tech lab, enable digital access, and provide education to create a community that empowers people to realize their potential.
- Provided technical support for Linux/Windows hardware and software.
- Proposed various marketing and network activities to raise awareness.

Amigos da Cultura

CORE MEMBER

Minas Gerais

Jan. 2003 - Dez. 2005

- With the Arte Solidária project, a show was created in which the whole community was called to participate, with which we created and discovered talents. All income from the event was converted to institutions that support society and nonprofits.

Certifications

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|------|---|-----------|
| 2020 | AWS Certified Solutions Architect – Associate, | AWS |
| 2020 | AWS Certified Cloud Practitioner, | AWS |
| 2012 | MCPS: Microsoft Certified Professional, | Microsoft |
| 2012 | MTA: Software Development Fundamentals, | Microsoft |