

LUCAS VAZZOLLER MARANGONI

[in](#) [Linkedin](#)   [G](#) [Github](#)   [P](#) [Portfolio](#)   [✉](#) [lucasvm.it@gmail.it](mailto:lucasvm.it@gmail.it)

Summary

I am a Golang back-end developer, I have skills in software engineering, database design, Docker containers, modular architecture, DDD and design patterns. In addition, with Pentest, Red Team, OSINT, as well as data protection and privacy.

Education

Hackers of Good	Cybersecurity - Red Team Specialization	Jan, 2024 - Oct, 2024
Legale Educational	Postgraduate Degree in Digital Law	Jan, 2024 - Sep, 2024
PUC Mines	Systems analysis and development (1st period)	Feb, 2023 - Jun, 2023
Estacio de Sa	Bachelor of Laws	Feb, 2014 - Mar, 2022

Professional experiences

Law Firm Renoldi Siqueira (ARS)	Internship	Tel: (27) 3222-2344	Sep 2022 - January 2023
Developed activities related to business and civil demands, writing actions, and analyzing and following processes, meeting and talking to customers, and solving everyday problems in the office.			

Main projects

Logella	Personal authorship project	January 2024 - Present	
A library <b>Golang</b> simple and minimalistic for observability and security with logs and exception handling. Their packages are:			
<ul style="list-style-type: none"><li>▪ <b>Logger</b>, Log settings, using <b>Zerolog</b>; <b>Router</b>, logs with the initialization of the routes with <b>Go-chi</b>.</li><li>▪ <b>Errs</b>, separate call trail from error, propagates http status, client response features and others.</li></ul>			
Financial File Manager	Personal authorship project	Dec 2023 - Interrupted	
System for control of financial documents, developed with <b>Golang</b> , <b>CockroachDB</b> , <b>Docker</b> . Before interrupting:			
<ul style="list-style-type: none"><li>▪ I prepared requirements documentation, software engineering, bug log and project board, and <b>i am still updating them now</b>.</li><li>▪ API Rest com <b>Go-chi</b>, authn with JWT and <b>2FA</b>. For access control <b>Casbin</b> and configuration management with <b>Viper</b>.</li><li>▪ Implemented <b>rate-limiter</b> by IP and user. Used <b>nginx</b> to <b>reverse proxy</b> and <b>load balancing</b> and Coraza as <b>WAF</b>.</li><li>▪ <b>RabbitMQ</b> as a queue in user creation with multiples <b>Goroutines</b>. For observability <b>Prometheus</b>, Zerolog and <b>Logella</b>.</li><li>▪ For caching solution I used <b>Memcached</b>. I implemented unit tests with stretchr and e2e with <b>postman/newman</b>.</li></ul>			
Currency Converter	Personal authorship project	(v1.1.0) Oct 2023 - Nov - 2023   (v1.0.0) - Jul 2023 - Sep - 2023	
API Rest for consuming foreign exchange <b>Exchangerates API</b> . Developed with <b>Nest</b> , <b>Mongoose</b> , <b>Docker</b> and <b>modular architecture</b> .			
<ul style="list-style-type: none"><li>▪ I used typecript's strict config. I created one <b>cluster of replicas and arbiter mongodb</b> and as a caching solution I used <b>Redis</b>.</li><li>▪ Used <b>Bull</b> for queues in user creation and local authn and <b>OAuth</b> com <b>Passport</b>. For config Nest management <b>ConfigModule</b>.</li><li>▪ I implemented Logs with <b>Pin</b>, exceptions and rate limit with Nest modules. <b>Swagger</b> for doc. and tests with <b>Jest</b> and <b>Supertest</b>.</li></ul>			
TaskList	Personal authorship project	(v2.1.0) May 2023 - Jul 2023   (v2.0.0) - Jan 2023 - Mar 2023	
Rest API for task list application, developed with <b>Express</b> , <b>Typescript</b> and <b>Prism</b> , applying <b>TDD</b> and principles of <b>DDD</b> .			
<ul style="list-style-type: none"><li>▪ I used lib <b>Overnight.js</b> our controllers with authn <b>JWT</b> com <b>Bcrypt</b> and <b>Express rate limit</b>. Has doc.<b>OpenAPI</b> with swagger.</li><li>▪ For persistence <b>MongoDB</b> and <b>Node cache</b>. Implemented <b>Graceful shutdown</b> and validations, treated exceptions and logs with <b>Pin</b>.</li><li>▪ Automated testing with <b>Vitest</b> and <b>Supertest</b> utilizing <b>in memory database</b> and <b>mocks</b>. I used it for workflow or <b>Github Actions</b>.</li></ul>			
Paiva Moto Parts	Highlight Axis I	Project developed in team	Mar 2023 - Jun 2023
Web application for workshop e-commerce. Developed in <b>team of six people</b> with Javascript, HTML and CSS.			
<ul style="list-style-type: none"><li>▪ It was my responsibility the "Store Items" page, the database structure, and the deployment with Github Actions on Github Pages.</li><li>▪ Agile methodologies were used as a basis for defining the development process.</li></ul>			

Skills

Free courses	Achievements
Hack The Box: Penetration Tester Path (In progress).	OAB: <del>41106</del> : Exam XXXII 1a 56 - 2nd tax 8.45
XP Education: Solutions Architect & Cyber Defense Analyst.	PUC Mines: Axis I highlight project. <a href="#">Showcase</a>
Duck Academy: From Bug to Bounty (Web Hacking).	English
Duck Academy: Davinci Protocol (OSINT).	Reading: Intermediate (frequent reading in English)   Written: Intermediate/Advanced (with translator help).
All courses and certificates on <a href="#">LinkedIn</a> .	