Luiz Miguel Silva Lima

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Address: 2490, Ourém, Portugal (Home)

ABOUT ME

I am a Software Developer with a strong foundation in C/C++, C#, SQL and Python. Also, I am well-versed in software engineering tools and methodologies such as Django, FastAPI, .NET, Git, Agile and RESTful APIs.

Most importantly... I love to code.

WORK EXPERIENCE

III TRIGÉNIUS - TECNOLOGIAS DE INFORMAÇÃO - PORTUGAL

SOFTWARE DEVELOPER - 11/2024 - CURRENT

Develop and maintain integrated B2B solutions for diverse clients, ensuring scalability, efficiency, and business process automation. I work closely with business stakeholders on a daily basis to deliver tailored software solutions that meet specific business demands.

Technical Skills: C#, .NET Framework, Javascript, Typescript, SQL, Microsoft SQL Server, RESTful APIs **Soft Skills:** Problem Solving, Verbal Skills, Continuous Learning, Responsibility, Logical Thinking

☐ FREELANCER – RIO DAS OSTRAS, BRAZIL

TECH CONSULTING - 2016 - 2021

Tech consulting for small businesses and individuals. I also addressed specific needs, such as small web developments, network installation and configuration and computer maintenance and assembly.

Web Development: Javascript, Python, Django, SQL and HTML & CSS.

Computer Networks & Hardware: TCP/IP, DNS, DHCP, Router, Switch, Firewall, VPN, Wi-Fi.

EDUCATION AND TRAINING

2024 - 05/2025

CS50 SQL Harvard University

- CRUD queries + Joins: SELECT, INSERT, UPDATE, DELETE, complex JOINs, subqueries
- Relational model & Schema design: tables, primary/foreign keys, normalization, constraints, triggers
- Indexes & Views: query optimization, performance tuning using indexes, views for abstraction

Link https://cs50.harvard.edu/certificates/0857bb30-e812-4cd7-9401-14fdab1e4bb0

02/2024 - 04/2025 Lisbon, Portugal

CYBERSECURITY EXPERT Portuguese Institute for Employment and Vocational Training (IEFP)

- Programming & Algorithmic Thinking: logic, pseudocode, exploit creation, secure code design
- Operating Systems & Networking: configuration and administration of client/server OS (proprietary platforms), TCP/IP stack, LAN setup, network services, OSI model layers
- Cybersecurity Fundamentals & Vulnerability Analysis: explored threat modeling, attack vectors, secure coding principles, and basic vulnerability scanning
- **Digital Forensics & Evidence Analysis**: introduced concepts of memory and disk analysis, digital trails, and basic incident response strategies

Level in EQF EQF level 5

Link https://silvalima.dev/tec_certificate.pdf

2024 - 2024

CS50 PYTHON Harvard University

- Object Oriented Programming: classes, objects, methods, inheritance, encapsulation, polymorphism, SOLID
- Error handling & Testing: exceptions (try/except), unit tests, debugging
- File I/O & data parsing: working with files, CSV, regex, external libraries/API calls

Link https://certificates.cs50.io/220cc048-7394-4f8d-9852-9a68e86c7967.pdf

- Low-level programming (C): memory, pointers, segmentation faults, dynamic allocation (stack vs heap), buffer overflow
- Algorithms & Data structures: sorting/search (binary, merge, bubble, selection), recursion, asymptotic notation $O/\Omega/\Theta$, stacks, queues, linked lists, trees, hash tables, tries
- Abstraction & Encapsulation: modular design, functions, header files, libraries
- Resource & Memory Management: manual allocation/deallocation, file I/O, memory leaks, debugging in C
- Security & Software Engineering: secure coding, testing, style checks, real-world problem sets

Link https://certificates.cs50.io/7d347e6d-6ec6-45ad-96c2-e29d1bc7fd34.pdf

2019 - 2022 Rio de Ianeiro, Brazil

ASSOCIATE'S DEGREE, SYSTEM ANALYSIS AND DEVELOPMENT UNOPAR University (Coursework Completed - No Degree)

2016 - 2017 Rio de Janeiro, Brazil

ASSEMBLY AND MAINTENANCE OF COMPUTERS AND CELLPHONES Prepara Cursos

PROJECTS

Particle Sandbox Simulation - C++ with SDL3

Built a 2D sandbox simulation of particles (sand & water) using real-time physics and density-based interactions.

- · Object-oriented architecture with custom physics engine logic
- Real-time rendering using SDL3
- Density-based particle movement with vertical forces, side-spread algorithms, and collision handling
- · Memory handling, raw pointers, and simulation loop timing

Link https://github.com/Aeziren/granular-lab/tree/main

Image Filter - Low Level Memory Management With C

Uses data and memory management to apply filter to an image To make a filter, the program have to go through all pixels in the images memory and change their byte values.

Link https://github.com/Aeziren/image-filter

Social Network Website

Full-featured social networking site built from scratch using Django, SQL, and Bootstrap.

- · Implemented user registration, login, and profile management with Django Auth
- Features user posts, comments, and likes using RESTful APIs and AJAX
- SQLite with efficient query design for scalable performance

Links https://github.com/Aeziren/social-network

SKILLS

C | C++ | C# | .NET Framework | Python | Django | Django REST Framework | FastAPI | Microsoft SQL Server | JavaScript | Git | Unit Testing | RESTful api | Linux | Agile | Object-Oriented Programming | Cloud Computing (GCP)

LANGUAGE SKILLS

Mother tongue(s): **PORTUGUESE**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DRIVING LICENCE

Driving Licence: A
Driving Licence: B