

LUCAS MALACRIDA DIAS

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Objective

Seeking a full stack developer role to build user-focused web applications and grow within a tech-driven team.

Work Experience

2024 - present

EXTERNAL SECRETS INC

San Francisco, USA (Remote)

Software Engineer

- Developed secure and robust web applications for Kubernetes secrets management, ensuring high reliability in a security-critical environment by following best practices in security, testing, and maintainability.
- Built and maintained frontend applications using React, TypeScript, Tailwind, shadcn, and React Query, focusing on usability and performance.
- Contributed to backend services using FastAPI, pytest, and MongoDB, enhancing system scalability.

2024

BTG PACTUAL

São Paulo, Brazil (Remote)

Intern, Automation Developer

- Developed web-based flow control systems for Repos and Trades, automating previously manual processes that relied heavily on Excel, effectively managing billions of dollars and enhancing the bank's cash security.
- Created and maintained web applications using React, TypeScript, and FastAPI, integrating PostgreSQL DBs and utilizing Docker, Kubernetes and AWS, ensuring scalable and efficient solutions.
- Automated general processes, saving time and effort for Middle Office and Back Office of the bank.
- Worked in International branches of the bank (LATAM and Cayman), driving and ensuring value creation in the bank's global expansion efforts.

2023

DRIVEN PROJECTS

São Paulo, Brazil (Remote)

Full Stack Developer

- Completed over 20 practical projects (systems and apps), replicating the pace and demands of IT teams, using all the web development technologies listed in “Skills”.
- Implemented best practices in software engineering, such as architecture, optimization and clean code.

2018 – 2024

UNIVERSIDADE DE SÃO PAULO (USP)

São Carlos, Brazil

Math and Physics University Teaching Assistant

- Assistance in courses "Calculus II", "Calculus III", "Classical Mechanics", "Physics II" and "Physics Lab I";
- Developed exercise lists and reinforcement classes, significantly complementing the undergrads' learning.

Education

2019-2024

UNIVERSIDADE DE SÃO PAULO (USP)

São Carlos, Brazil

- Bachelor in Physics – Grade Average 8,4/10 = GPA 3.36

2017-2019

- Bachelor in Aeronautical Engineering (Unfinished – 40%)

2015-2016

ELITE (2015) & POLIEDRO (2016) - Pre-University Courses (focus on ITA)

São Paulo, Brazil

Awards

- Silver medal at the "4th Competição Elon Lages Lima" (2023) - University Math Olympiad.
- Honorable mention at the "45th Olimpíada Brasileira de Matemática" (2023) - University Math Olympiad.
- Top 6 best scores of the "Exame Unificado de Física" (2023.2) - Graduate Physics Exam.
- Silver medal at the "2da Olimpiada Latinoamericana y del Caribe de Física Universitaria" (2018) - University Physics Olympiad.
- Admitted for a double degree at the "École Centrale de Marseille" (2018) - French College Admission.

Skills

- Programming Languages: Python / C / SQL / Bash / Fortran
- Web Dev: HTML / CSS / Javascript / Typescript / React / styled-components / MUI / Tailwind / Node / Prisma / FastAPI / PostgreSQL / MongoDB / Websockets / Redis / Jest / Docker / Kubernetes / AWS / Azure

Complementary

- Undergraduate Thesis: Introduction to Black Hole Thermodynamics
- Native Portuguese and Fluent English;
- Gym, competitive eating and guitar.