Gabriel Monteiro de Souza

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Professional Experience

Grafiame — Nova Odessa, SP

Freelance Full Stack Developer — 12/2020 - 02/2021

- Created and implemented the backend of an educational platform using Express.js and Firebase Firestore
- Developed and updated the institutional website
- Developed a writing chatbot using IBM Watson
- Implemented email sending system via Amazon SES integrated with EC2

Education

University of São Paulo — São Paulo, SP

Bachelor's in Information Systems — 03/2023 - Expected 05/2027

- Knowledge areas: Data structures, Computer architecture and organization, Operating systems, Algorithm analysis, Networks, Calculus
- Activities: Student representative for SBC (Brazilian Computing Society), Active in student organizations focused on information security, sales, and infrastructure

Technical Skills

Languages: C, SQL, Python, Shell script, Java, Javascript, HTML, CSS
Tools: Git, Github, SSH, Postman
DevOps Technologies: Docker, Ansible, Podman
Operating Systems: Linux-based systems
Web Technologies: React, Next.js, SASS, Django, Firebase, REST API
Languages: English (C1), Portuguese (native), Spanish (Basic)

Projects

Academic Research — São Paulo, SP

Experimental data acquisition and logging assistant — 08/2023 - 08/2024

- Studied voltage measurement hardware for lab experiments
- Developed a system using Arduino and Raspberry Pi for automating data collection
- Created Python software for system control and data visualization
- Enabled the co-supervisor to expand data collection, improving research quality

Elementary Roots — Campinas, SP

Local People's Choice Winner at NASA Space Apps Hackathon — 10/02/2021 - 10/03/2021

- Collaborated with a team to propose a solution for the challenge Have seeds will travel!
- Ideated an origami greenhouse for seed cultivation in space environments
- Created the website to showcase the solution
- Participated in pitch video production

Computing Lab — São Paulo, SP

Studies involving multiple computers in a university lab — 04/2023 - Present

- Studied and implemented cluster using Kubernetes and SLURM
- Built an 8-computer cluster and configured infrastructure for distributed environments
- Set up internal network using switches and static IPs
- Installed Debian Linux OS and other components to study
- Used Ansible for node management and updates