Rafael Saraiva

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Skills

- Typescript / Node.js / PostgreSQL
- C / C++ / JS / Python
- Docker

- Windows Server & Linux
- Networking (Cisco / Ubiquiti / PFSense)
- Time Management

- Communication & Teamwork
- Mentorship & Leadership
- Self-Learning and Adaptability

Work History

WORKSHOP LEADER, TUMO Portugal, Coimbra.
September 2024 – current

- Led programming and robotics workshops for teens, developing hands-on learning experiences with Javascript and C++ (Arduino).
- Facilitated AI Experience sessions from a programme in collaboration with the Raspberry Pi Foundation and Google DeepMind, offering cutting-edge resources on artificial intelligence & machine learning concepts and applications.
- Evaluated each teen's progress and provided constructive feedback to enhance their technical skills and understanding.
- Collaborated with other Workshop Leaders to improve content and delivery methods.
- Developed extra activities for Self-Learning and Alt July.

SYSTEMS ADMINISTRATOR, RCSoft, Coimbra.
January 2025 – current

- In charge of maintaining more than 20 clients local and remote backup solutions.
- Establishing good communication with clients, providing customer support by solving technical issues and provisioning new equipment.
- Deploying computers and servers for clients organizations & supporting in installation of OS, doing data backup.
- Analysed and provided solutions for clients' needs & performance/network issues.
- Maintained documentation of server configurations and network infrastructure for reference.

SYSTEMS ADMINISTRATOR INTERNSHIP, RCSoft, Coimbra.
February 2023 – July 2023

- Contributed to the development of a high-availability network using Arista 40GbE switches and compatible servers, also implementing MLAG and LACP protocols to ensure network integrity and enhancing system reliability with fault tolerance, gaining hands-on experience with enterprise-grade equipment and protocols.
- Assisted in the deployment of a high-availability PostgreSQL cluster for production environments, ensuring data consistency and system uptime.
- Collaborated with senior team members to troubleshoot network issues and implement solutions.

FULL-STACK FREELANCER, Remote.
July 2018 – current

- Provided website performance/design consulting services, analysing client websites and implementing optimizations strategies to improve load times and user experience.
- Made part of a project to revamp the website and mobile application of a client, focusing on responsiveness and accessibility standards.
- Managed the entire project lifecycle from previous website implementation, new website UI/UX experience and infrastructure, to implementation and post-launch support.
- Configured and maintained a Homelab environment for hosting production and test services, utilizing multiple technologies, ranging from hypervisor (Proxmox), virtual machines, firewall (pfsense/opnsense/open-wrt), and docker for containers.

Education

Bachelor of Computer Engineering, Instituto Superior de Engenharia de Coimbra, Coimbra.

- Member of the Student Association (media department as a content creator, photographer and videographer)
- Active member of the Associação Académica de Coimbra as a member of multiple Cultural Groups (Photography, Archive and Photography Editor for the *A Cabra* newspaper)

Languages

- Portuguese (Native Speaker)
- English (Intermediary) – B1 First – Cambridge University Press & Assessment English (08/2014)