

Rodrigo Sobral

Location: Geneva, Switzerland | Role: DevOps Engineer | Education: M.Sc. Cybersecurity

EXPERIENCE

Jan 2024 – Present · DevOps Engineer — [CERN](#), Geneva, Switzerland

Led a partnership's project between the [IT](#) and [ATS](#) departments, with the main goal of developing a new and internal version of [SWAN](#) (Service for Web based Analysis), named [ATS SWAN](#). After deploying and announcing it in several presentations ([ITCSC](#)), I started working on the maintenance and improvement of the general SWAN, including the development of new features and user support (using [ServiceNow](#) and [JIRA](#)).

[Python](#) [Jupyter](#) [Kubernetes](#) [Helm](#) [Docker](#) [ArgoCD](#) [Grafana](#) [Prometheus](#) [Terraform](#)

Oct 2022 – Oct 2023 · Backend Developer — [UCNext](#), Coimbra, Portugal

Hired by the client I was working for as a Analyst Developer. I concluded the same [UCNotes](#) project and led the backend development of some new ones, like: [UCCompetitions](#), [UCApply](#), [MyUC](#), [UCAnalytics](#) (internal), [UCDigitalSignature](#) (internal), [UCID](#) (internal for building access).

[Python](#) [Redis](#) [PostgreSQL](#) [REST API](#) [Grafana](#) [AWS S3](#) [SAP](#)

Jun 2022 – Jul 2023 · Private Tutor — [Superprof](#), Remote

Gave remote private lessons to computer science students in various subjects.

[Python](#) [JavaScript](#) [Networking](#) [Algorithms](#) [Databases](#) [Data Structures](#) [Operating Systems](#)

Apr 2022 – Sep 2022 · Analyst Developer — [Project Box](#), Viseu, Portugal

Allocated to multiple consulting projects for a client, as a Backend Developer, working on the development of new features, maintenance of existing ones and **refactoring** of legacy code, in a **microservices** architecture.

[Python](#) [Redis](#) [PostgreSQL](#) [REST API](#)

Jul 2020 - Aug 2020 · Summer Intern — [Critical Software](#), Coimbra, Portugal

One month internship where I got my first contact with the industry, working on a prototype, following the software development lifecycle, and using **Waterfall** and **Agile** methodologies.

[Java](#) [Spring Boot](#) [Waterfall](#) [Agile](#) [Scrum](#) [Kanban](#)

EDUCATION

2021 – 2023 · [M.Sc. Cybersecurity](#) — University of Coimbra

Thesis: [Analysis of user behavioral patterns in cybersecurity](#)

Security Auditing · Logging · Monitoring · Incident Response · Risk Assessment and Management · Privacy · Secure Software and Infrastructures · Mobile Communications · Cryptography · Law · etc

2019 – 2025 · CTF Player (offensive security training) — [TryHackMe](#)

Pentesting · Kill Chain · MITRE ATT&CK · Exploitation · Malware Analysis · OSINT · etc

2018 – 2021 · [B.Sc. Computer Science](#) — University of Coimbra

Compilers · Databases · Algorithms · Graphical Computation · Data Structures · Linear Algebra · Statistics · AI · Distributed Systems · Operating Systems · Network Protocols · etc

CERTIFICATIONS

[CKS: Certified Kubernetes Security Specialist](#) · [CKA: Certified Kubernetes Administrator](#) · [Junior Cybersecurity Analyst Career Path](#) · [Ethical Hacker](#) · [Others](#)

PROJECTS

[TugaCoin & Ethereum Todo List](#)

Built a cryptocurrency from scratch, implementing the blockchain system, mining algorithms, wallets, and a web interface for transactions. Also created a decentralized application (dApp) on the Ethereum blockchain, allowing users to manage their tasks securely and transparently.

[NodeJS](#) [Bootstrap](#) [Metamask](#) [Solidity](#)

[Scheduler Bot](#)

Designed a Discord bot for scheduling messages, whether to an user or to a group, via CLI commands, with a simple interface to manage the scheduled messages.

[Python](#) [uv](#) [Prisma](#) [SQLite](#) [Docker](#) [GitHub Actions](#)

LANGUAGES

Portuguese — Native | **English** — Fluent | **Spanish** — Intermediate | **French** — Basic (A2)

CONTACT

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