

Gianguido Sorà

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EXPERIENCE

Tech Lead, Protocol Team

Aug. 2023 – Present

Obol Network

Remote

- Interacted with **high-profile customers** to integrate Distributed Validator (DV) technology in their setups.
- Led the refinement and release process of the *first stable release* for Obol's flagship product.
- Designed and implemented the company's first-ever DV performance measurement framework based on matrix testing, which reduced release times by 50%.
- Led the talent acquisition initiative by creating a novel framework for candidate evaluation, that helped hire two engineers in the span of two months.

Senior Software Engineer

Jan. 2023 – Aug. 2023

Obol Network

Remote

- Designed an algorithm-agnostic **cryptography** framework for **Charon**, the leading Ethereum Distributed Validator implementation, allowing for quick pivoting in case of critical security bugs.
- Hardened *distributed key generation* process against user misuse and external attackers.
- Established Charon's **threat model**, then validated it with external auditors.
- Underwent Charon's first third-party *code audit* and developed tweaks based on auditor's suggestions.

Software Engineer

Mar. 2021 – Nov. 2022

Ignite (previously Tendermint)

Remote

- Oversaw the planning and deployment of a **microservice**-based architecture of the company's Emeris project.
- Implemented high-performance data ingestion pipelines based on **PostgreSQL** for Cosmos SDK-based networks.
- Reduced Emeris disaster recovery chain data import times by **60x**.
- Built **W3C**-compliant self-sovereign identity (SSI) on the Elesto blockchain network.

Software Engineer

Nov. 2019 – Feb. 2021

Commercio.network

Remote

- Shipped **mainnet** release of the company's Cosmos SDK-based blockchain node, achieving company targets for the year three months earlier than planned.
- Coordinated *testing and correctness* effort across the company's code repositories.
- Engineered customer-facing **REST API back-end services** that interacted with in-house front-end interfaces.
- Researched and implemented an **MVP** for a blockchain-based **W3C**-compliant verifiable credential system.

PROJECTS

xous-core — An operating system for security-oriented devices. | *Rust, GitHub, open-source* Feb. 2022 – Present

- Improved UI/UX through user feedback and direct usage experience.
- Implemented USB-based upload/download functionality for the **vault** FIDO2 application.
- Created an abstraction to allow developers to write applications that act as USB HID devices.

Wallera — Memory-safe Ledger hardware wallet re-write | *Go, GitHub, open-source* Dec. 2021 – Jan. 2022

- Reverse-engineered the USB HID-based protocol used by Ledger hardware wallet devices.
- Re-implemented it in Go in order to simulate a Ledger device on a local Linux computer.
- Designed *high-trust, high-security* component separation based on ARM TrustZone technology.

EDUCATION

Università degli Studi di Salerno

Salerno, Italy

Bachelor's Degree in Computer Science

Sep 2013 – Oct 2019

TECHNICAL SKILLS

Programming Languages: Go, Rust, Python (scripting level), Java (beginner level), Swift, SQL (PostgreSQL), HTML/CSS, C (beginner level), JavaScript (beginner level).

Tools: Linux, Git, GitHub, GitHub Actions, Docker, Kubernetes, VS Code, IntelliJ-based editors, Shell scripting.