Gianguido Sorà

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EXPERIENCE

Tech Lead, Protocol Team
Aug. 2023 – Present

Obol Network   *Remote*

- Interacted with several high-profile customers in order to integrate Distributed Validator (DV) technology in their setups
- Drove the second third-party audit initiative for Charon, Obol's DV implementation
- Led the refinement and release process for Charon's first stable release
- Designed and implemented the company's first-ever performance measurement framework based on matrix testing
- Led the talent acquisition initiative, creating a novel framework for engineering evaluation

Senior Software Engineer
Jan. 2023 – Aug. 2023

Obol Network   *Remote*

- Designed algorithm-agnostic **cryptography** framework for `Charon`, the leading Ethereum Distributed Validator implementation
- Hardened *distributed key generation* process against user misuse and external attackers
- Devised 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*

- Led design and implementation of the **microservice**-based architecture of the company's Emeris project
- Implemented high-performance data ingestion pipelines based on PostgreSQL for Cosmos SDK-based networks
- Reduced by ***260x*** chain data import time in disaster recovery situations
- Developed **W3C**-compliant self-sovereign identity (SSI) on the Elesto blockchain network
- Submitted bug fixes, research reports to Cosmos SDK

Software Engineer
Nov. 2019 – Feb. 2021

Commercio.network   *Remote*

- Shipped `mainnet` release of the company's Cosmos SDK-based blockchain node
- Coordinated testing and correctness effort across the company's code repositories
- Implemented 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 | *Rust, Git, open-source*
Feb. 2022 – Present

- Improved UI/UX through user feedback and direct experience
- Implemented USB-based upload/download functionality for the OS `vault` FIDO2 app
- Designed a way to store and retrieve user preferences, as well as an abstraction to improve developer experience around them
- Created an abstraction to allow developers to write applications that act as USB HID devices

WallERA | *Go, Git, custom hardware, 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
- Refactored code to be able to also run on a F-Secure USB Armory Mk.II
- 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

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

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