

# GIOVANNI MAGOGA

ma9o.github.io

## WORK EXPERIENCE

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### CTO, Hangoo [%](#) [in](#) [\(\)](#)

Dec 2020 - Apr 2021

taking care of the software side. team from columbia, max plank institut. raised 700k usd. left before incorporation for vision divergence

### Software Engineer, Passbase [%](#) [in](#) [\(\)](#)

Mar 2019 - Sep 2020

Joined the company right after inception as 1st engineer and experienced all the challenges of a growing organization. I've been closely working with the founding team (Standford, Google, TUM) to translate business requirements into product features, which contributed in growing the enterprise customer base from 0 to 50+. Substituted CTO. witnessed the largesd seed round in europe. cowboy, eniac. Kept in touch with the founders

## PROJECTS

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### Stonkify [%](#) [\(\)](#)

Apr 2021 - Jul 2021

Using Monero and I2P to issue equity to fund small creators with no access to capital. • Assembled a small team of 3 developers met through YC's SUS program • Built Nx monorepo for NestJS API and React frontend • Built agent based simulation of the market in Python • Designed Spring AMPQ microservice interface for 3rd party order book matching engine • Contacted a few YouTubers who expressed interest in a commercial solution

### Delegated authentication over TLS [\(\)](#)

Nov 2020

An online identity can be scattered across many different providers, all of which might not be implementing a delegated authentication protocol such as SAML or OpenID. A service provider willing to authenticate users against such a service would have to request access to their credentials and possibly face GDPR issues. In this scenario the service provider can still preserve his users' privacy via a distributed usage of AES CTR mode and TLS session tickets, as long as the identity provider is securing his API with TLS 1.3 and AES bulk encryption.

### Curation market for Brave ads network [\(\)](#)

Feb 2019

Brave is a Chromium-based web browser with a client side advertising engine which doesn't record personal data. Such ads are sampled from a candidates pool managed by a central authority which is responsible for maintaining the quality of the ad network high. A decentralized ranking algorithm can be put in place through a curation market, which I implemented in a smart contract (using Bancor) that can be interfaced with a browser extension.

### Anonymized Aragon voting app [\(\)](#)

Jan 2019

The Aragon network allows organizations to operate through a decentralized and permissioned framework. Organizations with such a requirement might also need anonymity of transactions, which is not (as of Jan. 2019) provided out of the box by Ethereum. Authority with anonymity can be hereby achieved through ring signatures in the browser, which I implemented with a Python library transpiled into C++ and then compiled into WASM.

## EDUCATION

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### BSc CS, Georg August Universitaet Goettingen [%](#)

Oct 2018 - Mar 2019

Exchange year, attended MSc sourses • Parallel computing (CUDA, OpenMP, SLURM) • Information theory and statistics • Data science (PySpark, sklearn, seaborn, NetworkX) • Category theory for programmers (Haskell)

### BSc CS, Universita degli Studi di Trento [%](#)

Sep 2016 - Sep 2018