GIOVANNI MAGOGA

ma9o.github.io

WORK EXPERIENCE

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 • Design and PoC of the authentication/authorization process • Refactored data model and designed GraphQL API • Benchmarking and deployment of MXNet AI models • Refactoring of Rails monolith into SOA with strict typing • CI/CD pipeline management with the Hashicorp stack • Technical sales, customer support and QA of outsourced work • Interviewing, mentoring and onboarding of new team members

OTHER PROJECTS

Stonkify ⚆ %   Mag 2021 - Jul 2021

Frictionless securities market to incentivize discovery and funding of upcoming internet creators • Assembled a small technical team through YC's SUS program • Built Typescript app using a Nx monorepo with NestJS GraphQL API and NextJS React frontend • Built agent based simulation of the market (Python) • Designed Spring AMPQ microservice interface for 3rd party order book matching engine • Drafted a protocol for limitation of liability of customers using Monero and I2P • Undertook business planning, market research and user acquisition

Delegated authentication over TLS ⚆   Nov 2020

Drafted a delegated authentication protocol for identity providers that do not implement SAML/OpenID, requiring only TLS session tickets and AES bulk encryption • In depth study and experimentation with AES CTR mode, TLS 1.3 and homomorphic encryption • PoC using openSSL and Mozilla's nss and IBM's homenc libraries (C++)

Curation market for Brave ads network ⚆ %   Feb 2019

Substituted the random ads selection algorithm with a deterministic one based on a curation market • Modified and rebuilt Brave (Chromium) to natively interface with an Ethereum node (Ninja, gRPC, C++) • Implemented on-chain bonding curves with Bancor • Modified chrome extension to enable purchase and sale of tokens

Anonimized Aragon voting app ⚆%   Jan 2019

Added ring signatures to the voting dApp to conceal the identity of voters. The signatures are computed off-chain and verified on-chain. • Ring signatures in the browser from Python library transpiled into C++ and compiled to WebAssembly • Optimized on-chain signature verification for the specific use case to reduce gas fees (Solidity)

EDUCATION

BSc CS, Georg August Universitaet Goettingen %   Oct 2018 - Mar 2019
Exchange year, attended MSc courses • 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

MISC

Interests economics, history, linguistics, AI, cinema, gliding, rts **Languages** Italian, English, German, Spanish