Meheret Tesfaye Batu

Full-Stack, Pythonista, and Blockchain Engineer

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EXPERIENCE

Qtum Foundation · Full-Stack Blockchain Engineer

JUNE 2022 - PRESENT · REMOTE · FULL-TIME

Developed distributed ledger systems which are applicable to large and complex production-level environments while ensuring secure deployment.

- **Qnode (Qtum nodes provider)** – https://qnode.qtum.info

A decentralized infrastructure-as-a-service platform that provides reliable, secure, and scalable access to the Qtum. It enables developers of all sizes to develop and deploy blockchain applications on Qtum without running their own node or managing the complexities of server setup, management, scalability, performance and availability.

I'm also the creator and main-maintainer behind this Qnode project.

- **Qtum Core Wallet (Testing)** – https://github.com/qtumproject/qtum

As a software engineer at Qtum, my main responsibility is to write and maintain Python test codes for the Qtum Core Wallet project.

- **Qtum-Exporter (Monitoring tool)** – https://github.com/qtumproject/qtum-exporter

A Prometheus exporter for Qtum nodes.

- **Qtum-BIP38 (Tool)** – https://github.com/qtumproject/qtum-bip38

Python library for the implementation of BIP38 for Qtum.

XinFin (XDC.Network) Foundation · Blockchain Engineer

JANUARY 2021 - OCTOBER 2022 · REMOTE · CONTRACT

Designed blockchain libraries, tools, and utilities to facilitate secure integration of distributed ledger systems into production-level networks.

- **PyXDC (Developer tool)** – https://github.com/meherett/pyxdc

Python library with tools for XinFin blockchain. It's a Python implementation for XinFin XDC.Network protocol.

LANGUAGES

Amharic (Native), English

SKILLS

Langages:
Python – 100%, Javascript – 99%, Go – 95%, Typescript – 100%, Solidity – 99%, Bitcoin Script(OP-Codes) – 99%

Frameworks & Libraries:
Flask – 100%, Django – 99%, FastAPI – 99%, Truffle – 99%, Angular CLI – 100%, React – 95%, Vue – 90%, PyTest – 100%

DevOps:
Docker – 100%, Kubernetes – 99%, Git – 100%, CI – 100%, Prometheus – 99%, Grafana – 99%, GCP – 95%, GKE – 100%

INTERVIEW

With Bytom Blockchain Official
FEBRUARY 20, 2021

https://medium.com/bytomofficial/interview-with-meheret-one-of-the-developers-from-bytom-community-80f9f181c09?source=social.tw

- **Atomic-Swap Project (Python library)** – https://github.com/movnetwork/swap

Added XinFin native XDC coin and XRC20 token protocols including Ethereum native ETH coin and ERC20 token protocols to this library.

Bytom Blockchain · Blockchain Engineer

AUGUST 2019 - APRIL 2021 · REMOTE · GRANT

Designed blockchain libraries, tools, and utilities to facilitate secure integration of distributed ledger systems into production-level networks.

- **Atomic-Swap Project (Python library)** – https://github.com/movnetwork/swap

A Python library for Cross-chain atomic swap between the networks of two cryptocurrencies. Cross-chain atomic swap is the cheapest and most secured by cryptographic proof to swap cryptocurrencies. It's a brand new decentralized payment environment based on Hash Time Lock Contracts (HTLCs) protocol.

Added Bytom mainchain and Vapor sidechain protocols including Bitcoin protocol to this library.

- **PyBytom (Developer tool)** – https://github.com/meherett/pybytom

Python library with tools for Bytom mainchain and sidechain protocols. On this library project, I won $5,000 US dollars equivalent in BTM coin in the Bytom dev competition in 2019.

- **Py-Equity (Developer tool)** – https://github.com/movnetwork/py-equity

Python wrapper around the BUTXO Equity compiler for Bytom protocol. It's Bytom classic (v1.0) Equity smart contract language compiler by using Python language.

EDUCATION

Admas University · Addis Ababa, Ethiopia · *Degree*

SEPTEMBER 2018 - AUGUST 2022

Bachelor of Science – BSc, Degree in Computer Science

Gebeya Inc · Addis Ababa, Ethiopia · *Courses*

JUNE 2018 - MARCH 2019

Trained on Back-End Engineering focused on Node.js and Blockchain Technologies.

CERTIFICATE OBTAINED FROM

Admas University – BSc Degree
AUGUST 2022

Successfully completed Bachelor of Science – BSc, Degree in Computer Science.

Bytom Blockchain Foundation
MAY 2019

Has won $5,000 worth amount of BTM coin in recognition award of Bytom dev competition in 2019

Gebeya Best of African Talent
JANUARY 2019

Completed Back-End Engineering by Node.js and Python languages.

JUNE 2018

Completed Front-End Engineering by Angular CLI v2+ Framework.

Omega School – Diploma Graduation
AUGUST 2017

Successfully completed preparatory college course of study.

Ethiopian Ministry of Communication & Information Technology (MCIT)
JUNE 2016

Certificate of Appreciation for participation in the 9th ICT Exhibition, Bazaar, and Conference of innovative ideas competition.

Addis Ababa Communication & Information Technology Agency
JUNE 2016

ICT innovation contest during the 3rd ICT conference and exhibition in the category of higher learning

JUNE 2017 - SEPTEMBER 2018

Trained on Front-End Engineering focused on Angular CLI v2+ Framework.

Omega School · Addis Ababa, Ethiopia · *Diploma*

SEPTEMBER 2018 - AUGUST 2022

Completed preparatory college course of study.

PERSONAL OPEN-SOURCE PROJECTS

Hierarchical Deterministic Wallet (HDWallet)

OCTOBER 2020 - PRESENT

Python-based library for the implementation of a hierarchical deterministic wallet generator for more than 140+ multiple cryptocurrencies. It allows the handling of multiple coins, multiple accounts, external and internal chains per account and millions of addresses per chain.

This library is also recognized by the Bitcoin core team. https://github.com/bitcoin/bips/blob/master/bip-0039.mediawiki#other-implementations

Star - **436** · Fork - **142** · Used by - **288** · Contributors - **13**

Link – https://github.com/meherett/python-hdwallet

I'm also the creator and main-maintainer behind this HDWallet project.

Cobra Framework · Public-Archived

FEBRUARY 2019 - AUGUST 2019

A fast, flexible and simple development environment framework for Ethereum smart contract, testing and deployment on Ethereum virtual machine(EVM).

Star - **53** · Fork - **7** · Watchers - **4**

Link – https://github.com/cobraframework/cobra

Bitcoin Improvement Proposal - 0038 (Python-BIP38)

SEPTEMBER 2023 - PRESENT - **NEW**

Python library for implementation of Bitcoin Improvement Proposal - 0038 / BIP38 protocol. It supports both No EC-multiply and EC-multiply modes.

Star - **10** · Fork - **1**

Link – https://github.com/meherett/python-bip38

institution.

Competed in cryptography and ranked 2nd.