

JOINING A STARTUP

Code the new money at Trever

Who am I?

Benjamin Rath

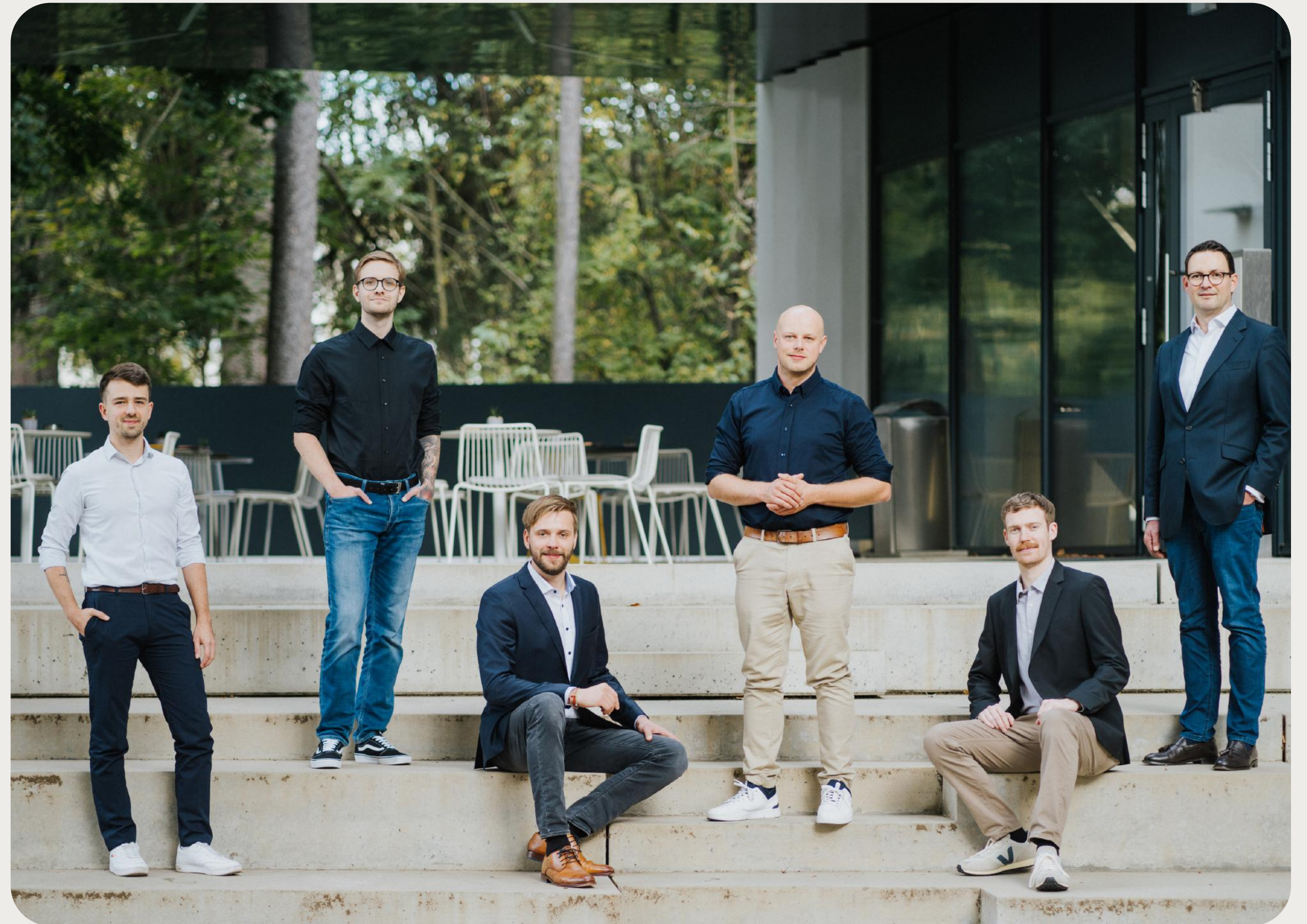
CTO & Co-Founder at Trever

- Apprenticeship in Software Engineering
- Worked as Data Scientist
- Bachelor's in CS
- Dropped out of Master's
- CTO (CPO & CRO)



Who is behind Trever?

- 11 team members
- Bootstrapped and founder-owned
- Headquartered in Graz
- Distributed in 3 cities
- Broad advisory team



What is Trever?

- Infrastructure Provider for Digital Assets
- Digital Assets, i.e., New Money
 - Cryptocurrencies
 - Digital securities
 - Digital Euro
- Europe-based Control Plane
- Contributor to the new Financial Landscape

Prone to

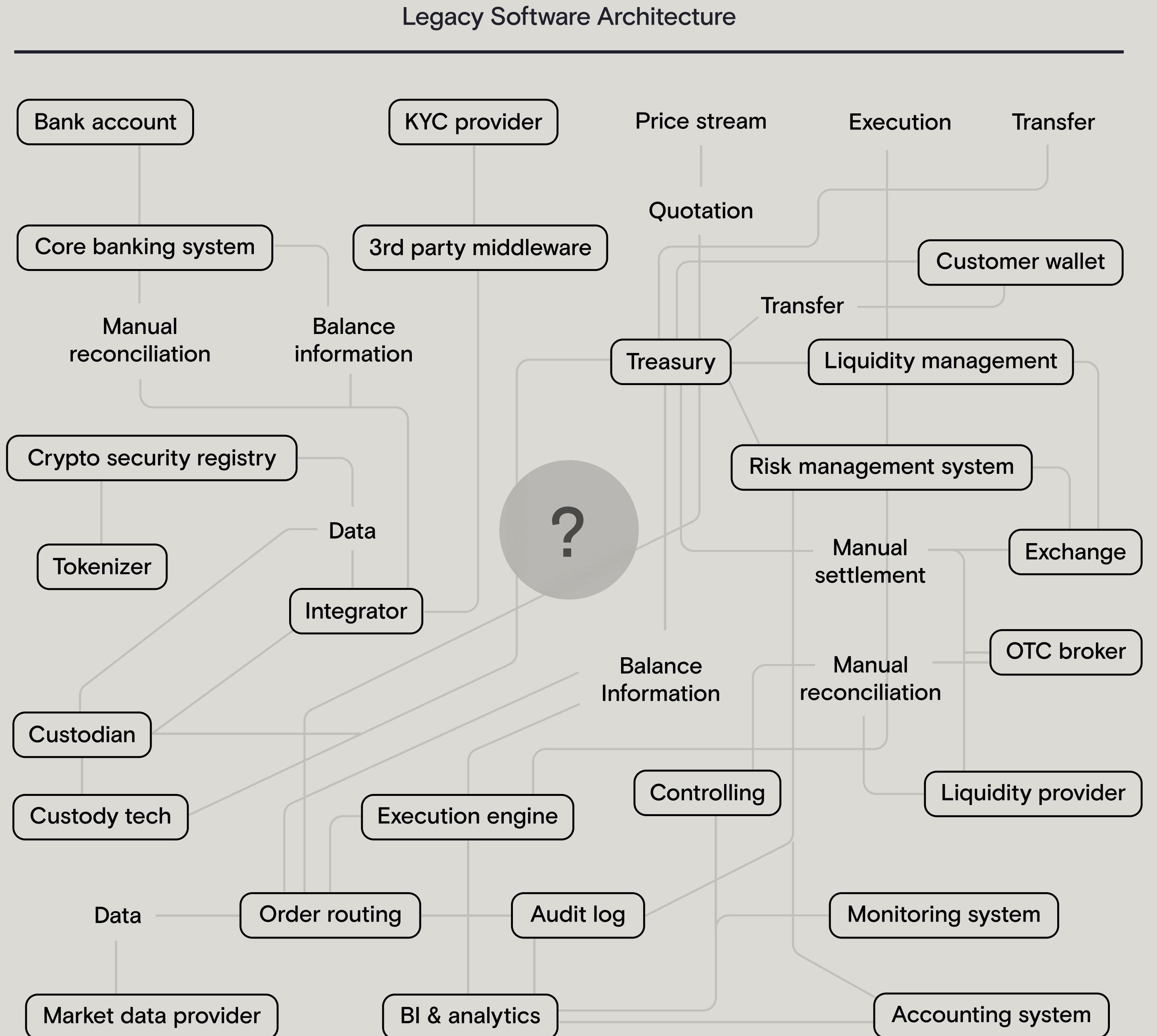


Legacy banking systems are unprepared for Digital Assets

Essential functions missing

Poor connectivity integration

Batch characteristics –
no real time availability

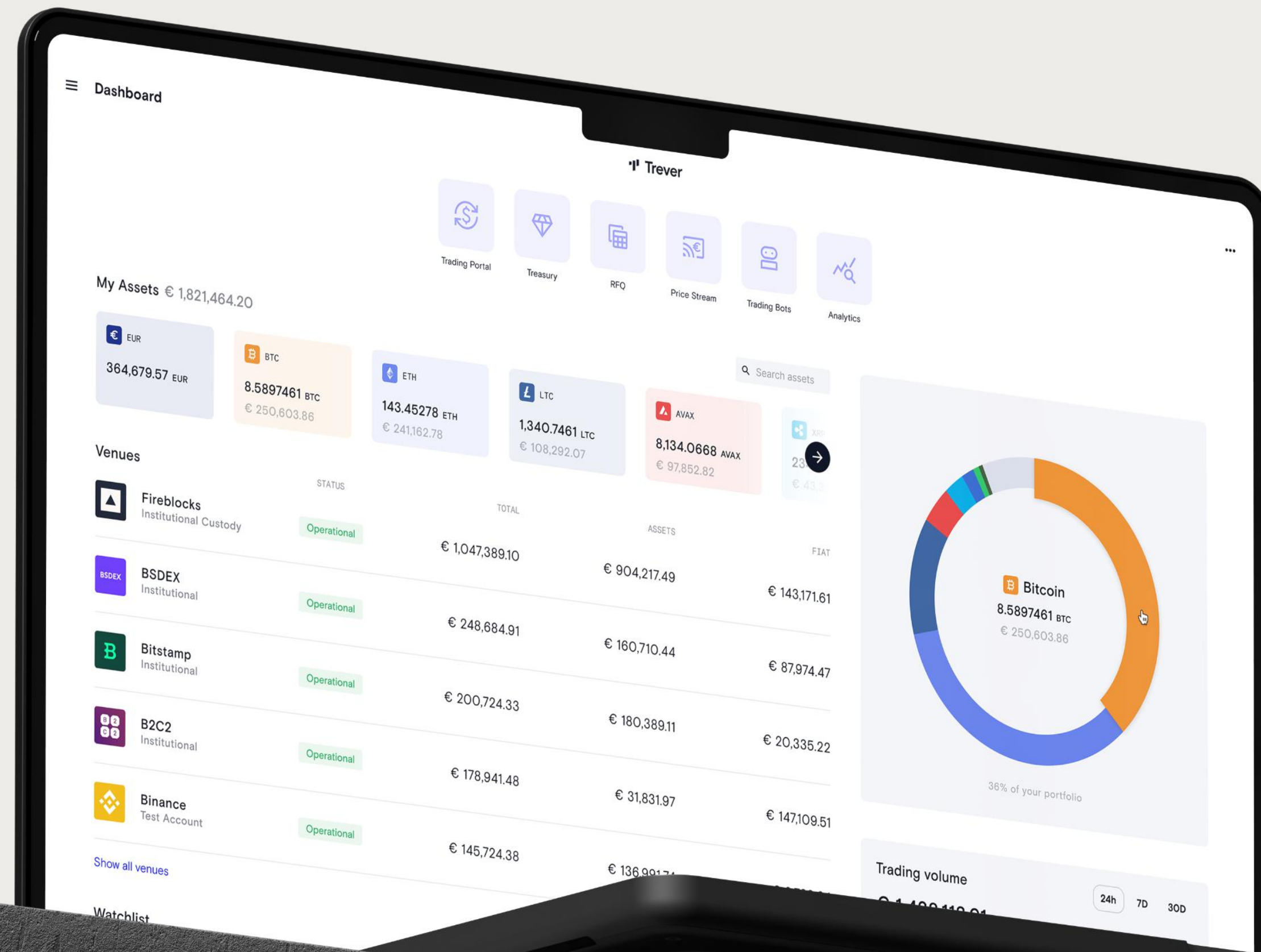


Solution

Scout24

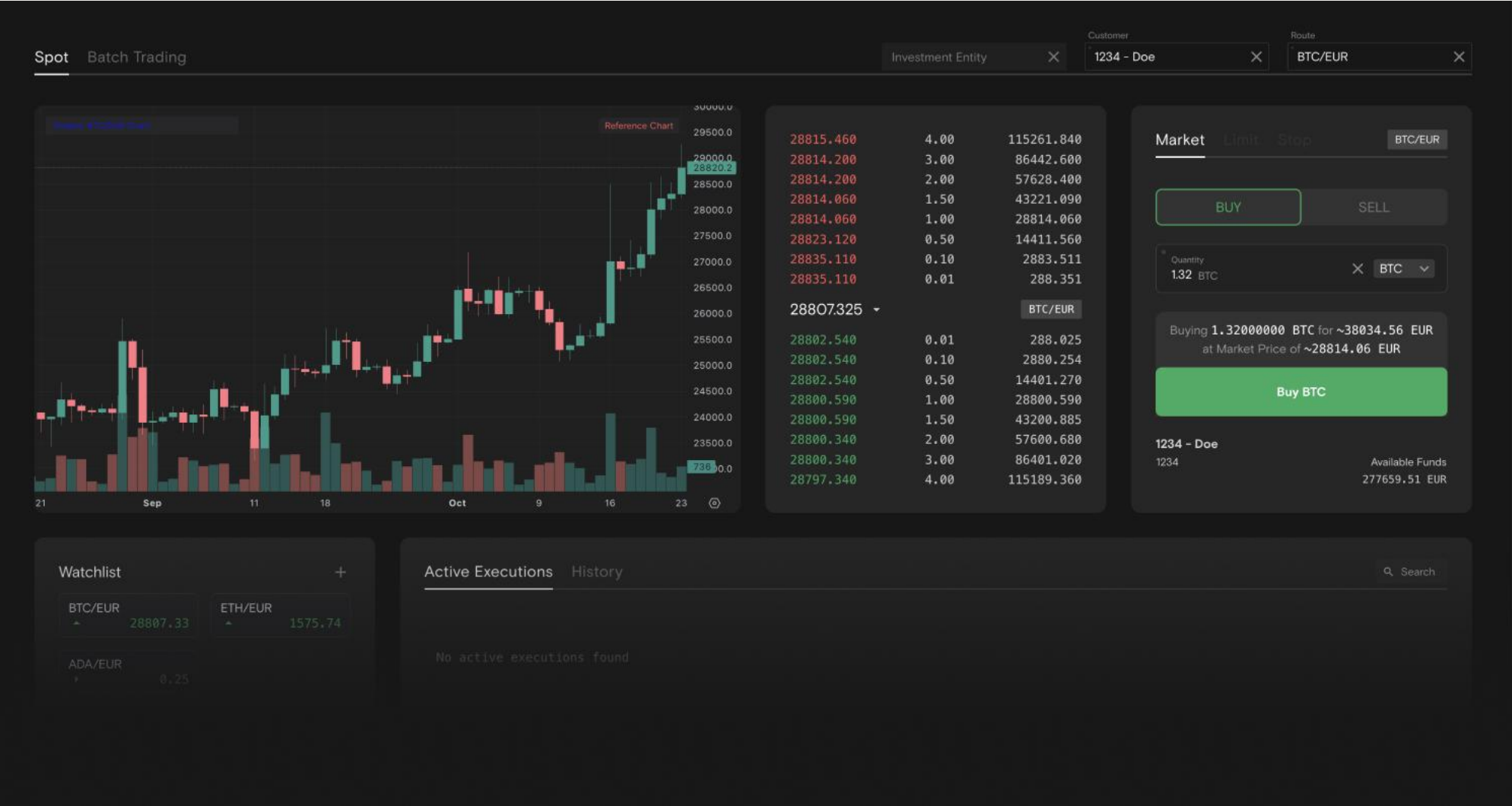


How does it look like?



A HOLISTIC DIGITAL ASSET MANAGEMENT SYSTEM

How does it look like?



Order management system

Demo / Customers / 1234 - Doe

Trever

General Balances Executions Transactions Meta

Historic Transactions

BOOKING TIMESTAMP	VALUE TIMESTAMP	DESCRIPTION	ASSET	QUANTITY
2023-08-23 22:13:16	2023-08-23 22:13:16		ADA	20
2023-08-23 22:09:03	2023-08-23 22:09:03		EUR	-5.21
2023-08-23 22:09:03	2023-08-23 22:09:03		ADA	20
2023-08-23 21:38:37	2023-08-23 21:38:37		EUR	-25.66
2023-08-23 21:38:37	2023-08-23 21:38:37		BTC	0.001
2023-08-23 18:43:26	2023-08-23 18:43:26		MANA	4.65421595050901426
2023-08-23 18:43:26	2023-08-23 18:43:26		APE	-1
2023-08-23 18:43:19	2023-08-23 18:43:19		MANA	-5.171123378396354
2023-08-23 18:43:19	2023-08-23 18:43:19		APE	1
2023-08-22 14:01:15	2023-08-22 14:01:15		EUR	13632.3

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Bookkeeping & reporting

New transaction

From: Kraken - Institutional

To: Binance - Institutional

Asset: BTC

Route: BTC: Kraken → Binance

Quantity: 60

Note

Submit

Transactions

Exchange	Asset	Available	Total	Withdrawl Fee	Protocol needed
Kraken	BTC	0.000995	0.009999		
Binance	BTC	0.000995	0.009999		

Active Transactions

No active transactions

Transaction Hobs

ROUTE	FROM	TO	ASSET	PROTOCOL	QUANTITY
Binance→Kraken (BTC)	Binance	Kraken	BTC	Main Net	30.123354

Transaction History

ROUTE	FROM	TO	ASSET	PROTOCOL	QUANTITY
Binance→Kraken (BTC)	Binance	Kraken	BTC	Main Net	30.123354
Binance→Kraken (BTC)	Binance	Kraken	BTC	Main Net	30.123354

Treasury

Engineering Challenges

- Different prices on different exchanges
 - Path Finding Algorithms
 - Deep Learning
 - Reinforcement Learning
- Stream processing
 - Price stream
 - Event stream
- Analytics
 - Data warehouse
 - Stream Analytics



Technology

CNCF

- k8s
- microservices
- container images

System Services

- Postgres
- Redis
- Kafka
- DynamoDB
- AWS Cognito

CI/CD

- GitLab Runners
- aws cdk
- cdk8s

Languages

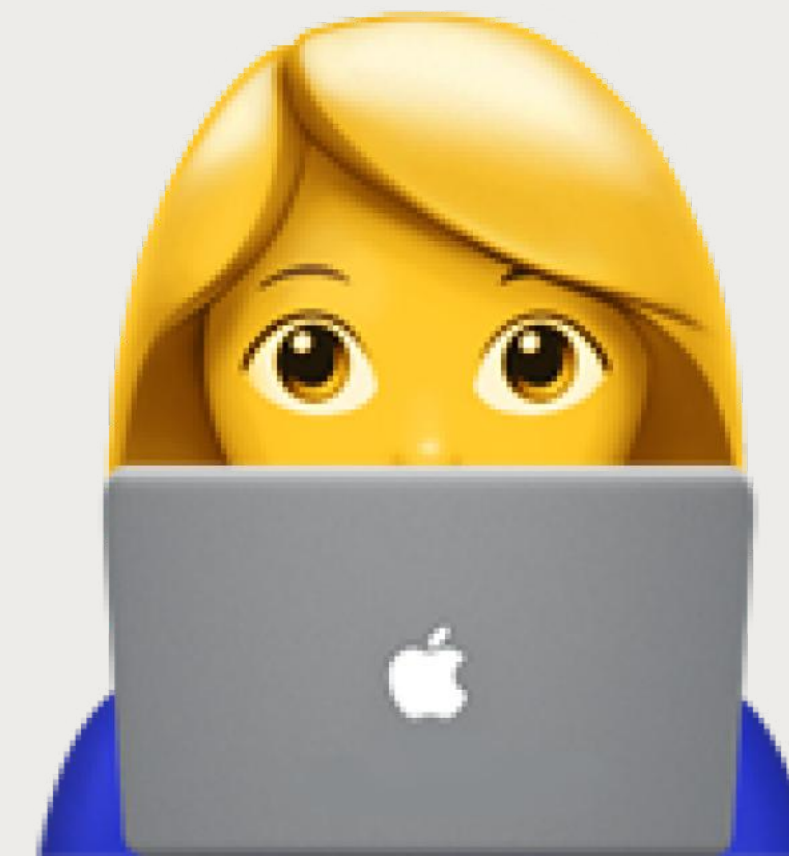
- Go
- JS/TS
- Python

Observability

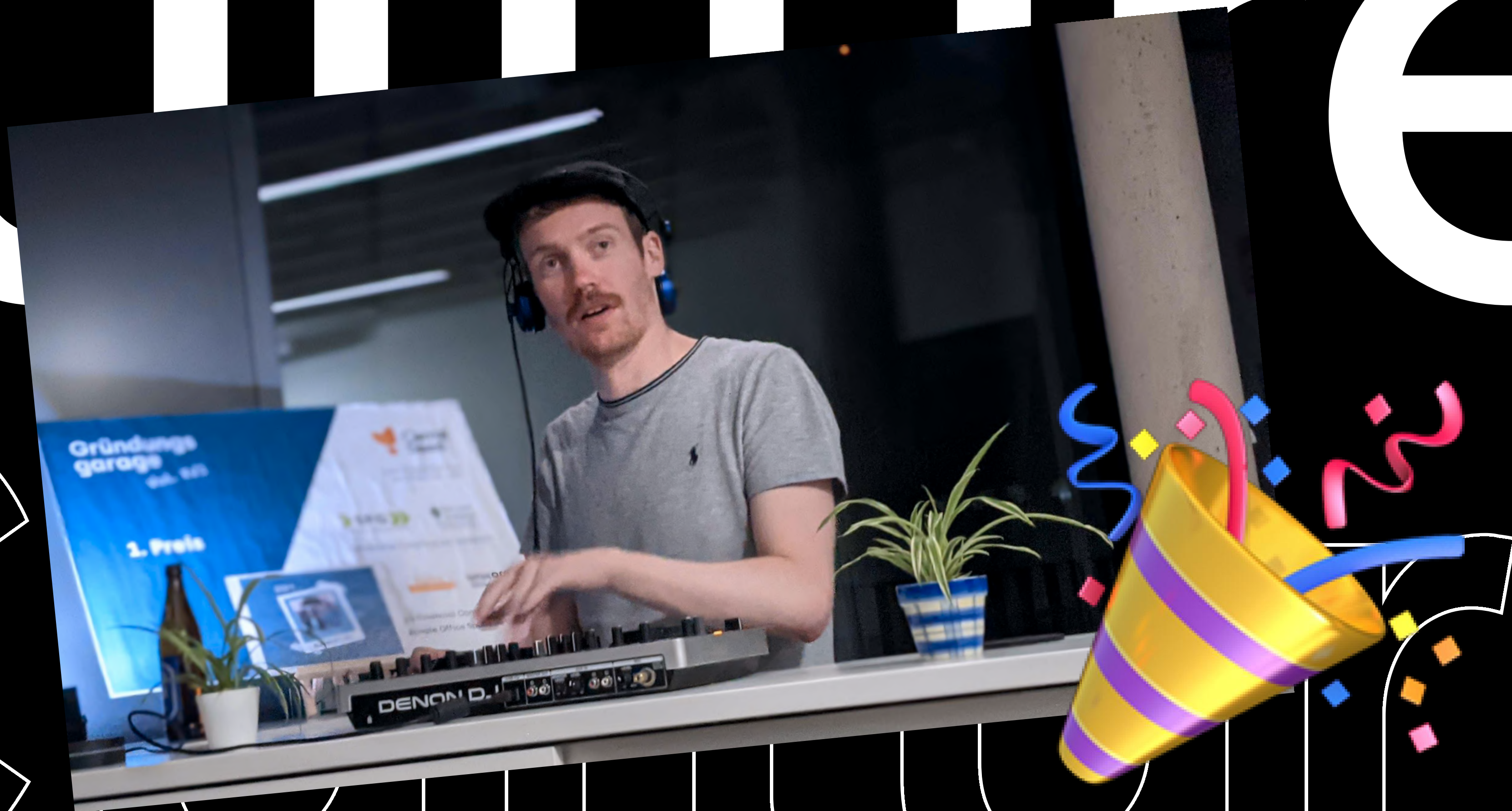
- Grafana LGTM Stack

How we work

- Agile via GitLab
 - Iterations, Milestones, Epics
- Written communication
- Hybrid office policy
- Focus on DX
- Peer review
- Tests are mandatory for each change



Chillcore





Code the New Money



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OUR PARTNERS

