# **Matthew Roberts**

## Experience

June 2023 - Oct 2023



Fintech / Blockchain

Trading systems

Networking

Trusted computing

Software engineering

Research

### Loves

Cheese pizza

Wolf Alice

Overwatch

Rain

Enclave Engineer - Puffer.fi /

Intel SGX Enclaves, Solidity, Ethereum

• I implemented security fixes to smart contracts that let CPUs prove the software they run.

May 2021 - Mar 2022

## Rust Engineer - Cypher.trade /

Solana, Anchor, SPL, Margin trading, Google

• I helped customers get funds into the Cypher trading system by developing a secure deposit system.

Feb 2018 - Jun 2018

#### Lead DEX Engineer - Exodus.io /

Ethereum, Truffle, Nodejs, ERC-20, Metamask

- I developed an experimental prototype for trading ERC-20 tokens without a trusted third-party.
- I was responsible for designing smart contracts and building the trading engine for matching orders.

*Apr 2017 - Feb 2018* 

## Lead Blockchain Engineer - Ambrosus / Ethereum, Solidity, Truffle, JS, Nodeis, Python

nereum, Solidity, Trume, 35, Nodejs, Python

- I developed experimental prototypes show-casing the benefits of supply chain integrity measures.
- I oversaw the development of a browser for financial contracts to cut-down on duplicate design efforts.

Oct 2015 - Mar 2016

## Python Engineer - Storj.io 🖊

Python, Twisted, Bitcoin, DHT, Kademlia

- I contributed to the design of peer-to-peer information storage and retrieval mechanisms.
- I developed client libraries for transferring files.





#### **Portfolio**

Coinbend whitepaper /

Async networking /

Events are arbitrary \( \triangle \)

Pay for private keys ∠

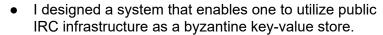
Timechains 7

My Github ∠

Oct 2023 - Dec 2023

#### Decentralized key-value store on IRC /

P2PD, Consensus, VDFs, IRC

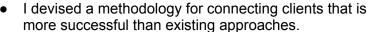


Such a system can be used as a free alternative to DNS and the Ethereum Name System.

Jan 2022 - Current

#### P2P Networking Library - P2PD /

Python, Asyncio, NAT, STUN, TURN, Sockets



I established infrastructure and processes for testing that significantly improved software quality.

Apr 2017 - Feb 2018

#### Contract Browser - Ambrosus /

Ethereum, Truffle, Nodejs, ERC-20, Metamask



• I designed contracts to highlight the company's main value offering for client demos.

Jan 2013 - Mar 2016

## Decentralized Exchange - Coinbend

Python, Bitcoin, Networking, Applied Cryptography

- I devised a better process for storing customer's crypto-assets that is more secure.
- I designed and built the interface, financial logic, and architecture necessary to reach MVP.

"I'm a senior software engineer with more than 10 years of experience working remotely. I have a background in FinTech where I specialize in trading systems. My skills are diverse and allow me to both design and implement systems.

Feel free to reach out if there's a mutual interest.





# Software Engineer matthew@roberts.pm

# **Matthew Roberts**

## Easter Egg

Most people know that PDFs are a format for documents. But probably not many know about the more advanced features of PDFs. A PDF document is capable of containing rich media content like sound and movies - but also: whole interactive experiences are possible.

I wanted to see if I could use these features to try make my resume stands out a little more. What I've come up with is a simple snake game that uses a grid of input fields as a pixel-based display. The game should work on Firefox and Adobe Reader (desktop). But not in Chrome or Edge (these browsers use an in-built PDF viewer with limited support for Javascript.)

Give it a go. Use ASDW for movement of the snake.

Your score High score