

APOSTOLOS TZINAS

tzinas@tzinas.com | +30 6948483021 | github.com/tzinas | Google Scholar

Education

National Technical University of Athens

Oct 2019 - now

MEng in Electrical and Computer Engineering

Technical Skills

Languages: JavaScript, TypeScript, C/C++, SQL, Python, Solidity, Rust, HTML/CSS

Technologies: Linux, Docker, Blockchains, Google Cloud, PostgreSQL, React.js, Next.js, NGINX

Experience

Common Prefix

Sep 2021 - now

Co-Founding Engineer and Researcher

- Co-founder of a bootstrapped consulting company with **\$2.4M** revenue during the first two years.
- Led the deployment of an **Ethereum** committee-based bridge, managing over **\$3M** in TVL.
- Run an Axelar (Cosmos) mainnet validator with more than **\$100K** in delegations.
- Co-authored an academic paper proving secure a deployed PoW protocol with more than **2K miners** and **500M transactions** on testnet.

Maya Insights

Feb 2021 - Sep 2021

Front-end engineer

- Created a **React.js** front-end application for data analytics used in production by a dozen businesses.

NutriDice

May 2020 - Aug 2021

Full-stack engineer

- Redesigned and developed a production-grade **RESTful** web application for nutritionists.
- Achieved a **9x** application speed increase leveraging optimization techniques in **SciPy** and **NumPy**.

Publications

On-Chain Timestamps Are Accurate

Apostolos Tzinas, Srivatsan Sridhar, Dionysis Zindros

Financial Cryptography 2024

Rollerblade: Replicated Distributed Protocol Emulation on Top of Ledgers

Dionysis Zindros, Apostolos Tzinas, David Tse

Preprint

A Better Proof-of-Work Fork Choice Rule

K. Kreder, S. Shastri, A. Tzinas, S. Vishwanath, D. Zindros

Preprint

The Principal-Agent Problem in Liquid Staking

Apostolos Tzinas, Dionysis Zindros

Financial Cryptography Workshop on Trusted Smart Contracts 2023

Invited Talks

NTUA , Corelab	On-Chain Timestamps Are Accurate	Feb 2024
TU Wien , Security & Privacy	The Principal–Agent Problem in Liquid Staking	Apr 2023
NTUA , Corelab	The Principal–Agent Problem in Liquid Staking	Mar 2023
Stanford , Tse Lab	The Principal–Agent Problem in Liquid Staking	Feb 2023

Awards/Tournaments

2017	5th	Greek Olympiad in Informatics	Athens, GR
2016	39th	International Tournament in Informatics	Shumen, BG
2016	31th	Junior Balkan Olympiad in Informatics	Skopje, MK
2016	2nd	Greek Olympiad in Informatics	Athens, GR

Teaching

Complexity and recursion	Greek National Team in Informatics	Apr 2021
Dynamic programming	Greek National Team in Informatics	May 2022

Projects

Full node	A JavaScript full node implementation for the Marabu blockchain.
Percentage slider	An npm React.js component with more than 2.7K downloads .