

Eray Acikgoz

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Date of Birth: 05.12.1998

London, UK

EDUCATION

- **Norwegian University of Science and Technology (NTNU)** Trondheim, Norway
Department of Computer Science, Master's Degree June 2020 - Aug 2021
Supervisor: Prof. Jingyue Li, Projects: PaasforChain Courses: Operating Systems, Software Security & Data Privacy, Cryptography, Blockchain Technologies and Cryptocurrencies Research: High-Performance Async P2P Protocols
- **Sakarya University** Istanbul, Turkey
Bachelor of Science - Systems Engineering and OR; GPA: 3.15 July 2016 - June 2020
Bachelor's Thesis: Simulation and analysis of P2P architectures in microgrids

SKILLS SUMMARY

- **Languages:** Turkish (Native), English (Fluent)
- **Blockchain:** EVM Chains (Ethereum, BSC, Polygon, L2s), Solana
- **Programming Languages:** Go, Rust, SQL, Solidity, Python (NumPy, Pandas, SciPy, Matplotlib), MATLAB
- **Software & Tools:** MS Office, Git, Docker, L^AT_EX, SAP, Tableau, Notion, OverSim, Excelidraw

EXPERIENCE

- **Research Engineer** June 2023 - present
Semiotic Labs / The Graph California, US
 - Designed and implemented verified blockchain data pipeline PoC for EVM chains data extraction and streaming.
 - Architecht and built Era file service to serve historical data to execution layer clients like Nethermind.
 - Developed VFH (Verifiable Firehose) solutions to ensure the integrity of extracted blockchain data and explored zk-compute technologies like DSLs, zkVMs, and co-processors for Substreams computation verification.
 - Contributed to The Graph's evolution in offering decentralized data solutions, including JSON-RPC and SQL, by developing bespoke verifiable solutions tailored to specific security needs.
- **Research Engineer** Nov 2023 - Feb 2023
Primev Delaware, US
 - Developed the mev-commit to facilitate exchange of execution bids and credible commitments between MEV actors.
 - Pioneered solutions in preconfirmations, inclusion lists, hooks, CR and other MEV primitives for mev-commit.
 - Worked closely with founder to set strategic research priorities and engineering initiatives as research engineer/architect.
- **Protocol Fellow** Oct 2022 - Feb 2023
Ethereum Foundation Berlin, Germany
 - Researched and focused on PBS, MEV, Cryptoeconomics, Encrypted Mempools, Based Rollups and Mechanism Design under the mentorship of Barnabe Monnot and Alex Stokes in the Robust Incentives Group.
 - Completed the cadCAD Masterclass for comprehending Ethereum Validator Economics and analysed the EIP-1559.
- **R&D Project Engineer** Aug 2021 - Oct 2022
Faradai London, UK
 - Granted by the EU Horizon 2020 program for developing an on-chain carbon scoring, tracking, and lending protocol, RWAs in the scope of digitalization and decarbonization of the energy sector, which utilized IoT and energy intelligence.
 - Contributed to the development of ESG frameworks and strategies using our data intelligence platform.

SELECTED PROJECTS

- **EBRD & University of Cambridge - Cyber Resilience Project:** The project lays out current cyber-resilience and blockchain security best practices in critical infrastructures such as food, finance, energy, water, transport, health, emergency services, and telecommunications sectors. I am the team lead for Finance.
- **NTNU PaasforChain:** Platform as Service Technologies for High performance Blockchain-based Supply Chain Management Systems. Architecture design, cryptoeconomic security and privacy, cryptography and consensus mechanism.

PUBLICATIONS AND SELECTED WRITINGS

- Using The Graph to Preserve Historical Data and Enable EIP-4444 Nov 2023
Eray Acikgoz, Seve Sisneros
- Understanding the Technical Aspects of Aztec 3 and Noir May 2023
- Designing the Business Ecosystem of a Decentralised Energy Datahub Jan 2022
Sinan Küfeoğlu, **Eray Acikgoz**, Jan Priesmann, Aaron Praktiknjo
- Aave V3 Report; Sui vs Aptos Report for Sei Sep 2022
- Concerns on censorship from the perspective of MEV Oct 2022
Eray Acikgoz, EF Protocol Fellowship

HONORS, AWARDS & GRANTS

- Axiom ZK Intensive Cohort 2
- Fenbushi Capital Research Fellow
- Blockcircus, Turkey's first Blockchain Hackathon Winner & Special Award Winner (HartHouse.co) - 2018