AYA FERGACH

Smart Contract Developer | Data Analyst | Event Organizer

Socials: https://x.com/frg__y   t.me/frg_a   https://github.com/frgpy

Contact

📍 Paris & Remote

📞 +33 6 05 88 70 79

ayafergach70@gmail.com

Education

Bachelor's in Computer and Mathematical Sciences, with a focus on Cognitive Science
Bordeaux University
2021 - 2024

SKILLS

Programming Languages and Technical Skills:

Solidity, Typescripts, React, Foundry, Hardhat, OpenZeppelin, Rust, Anchor ,Python (NumPy, Matplotlib), Excel, Skylab, Jupyter Notebook, PsychoPy

Blockchain & Web3 Development:
Smart contract , Backend Integration, Solana, EVM, DeFi, NFT minting(metaplex), DAO governance
Frontend & dApp Development

React ,Next.js , TypeScript, Scaffold-ETH, HTML/CSS

Language

French : Native

English : Fluent

Arabic : Native

👤 Profile

Bachelor'sgraduate in Computer and Cognitive Sciences with a strong focus on blockchain technologies. I specialize in smart contract development and thrive at the intersection of technology, community engagement and event coordination. I'm eager to contribute to web3 ecosystems through both technical innovation and human connection.

💼 Blockchain Hackathon

2025 - 2024

ETHGlobal Bangkok – Blockchain Hackathon

October 2024 | Bangkok, Thailand

- Built Rollin Pool, a decentralized ride-sharing protocol ("the Blablacar of Web3").
- Designed a smart contract system allowing users to create or join ride pools with token-based incentives.
- Focused on user trust, cost-sharing, and transparent on-chain coordination between drivers and passengers.
- Developed with Solidity, Hardhat, React, and Ethers.js.

Skills acquired

dApp UX ·· Smart contract architecture · KYC mechanisms · Agile teamwork · Oracle Integration

ETHGlobal Singapore – Blockchain Hackathon

September 2024 | Singapore

- Collaborated with an international team to build a cross-chain dApp using Solidity, Hardhat, and Next.js.
- Integrated off-chain data with smart contracts using oracles and API endpoints.
- Contributed to backend logic, on-chain voting mechanism, and frontend integration.

Skills acquired

Cross-chain development · API/Web3 integration · Governance logic · Next.js · Rapid prototyping · Smart contract logic

ETHGlobal Brussels – Blockchain Hackathon

July 2024 | Brussels, Belgium

- Designed and developed a decentralized application (dApp) from scratch using Solidity, Hardhat, Ethers.js and React.
- Acquired hands-on experience in writing, deploying, and interacting with smart contracts on Ethereum-compatible chains.
- **Rootstock :** Best DeFi dApp on Rootstock : $4000
- **Blockscout :** Best use of Blockscout Block Explorer: $210.52

Skills acquired

Smart Contract Deployment · dApp Architecture · Teamwork under pressure

Bootcamps

Turbin3 – Solana Builder Cohort
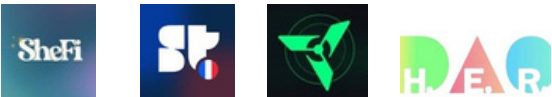November 2024- December 2024

- Built dApps and learned Solana architecture using Rust and Anchor.
- Participated in weekly workshops and collaborative code reviews.

Encode Club - EVM
July 2024-August2024

- Built and deployed Solidity-based contracts with Hardhat and Foundry.
- Learned core DeFi mechanisms (ERC-20, ERC-721, governance, delegation, DAO logic).
- Gained a strong understanding of blockchain security, testing frameworks, and upgradeability patterns.

Communities

💼 Event Organization & Community Involvement

DAO Co-organizer – Pop-Up City Chiang Mai

HER DAO | October 2024 – November 2024 | Chiang Mai, Thailand

- Co-organized a 1-month residency program for HER DAO during the Road to Devcon initiative.
- Coordinated daily workshops, networking events and IRL community-building sessions.
- Managed logistics, speaker outreach, scheduling and on-site facilitation.
- Helped build a safe, inclusive and empowering space for women developers, founders and creatives in Web3.

Skills acquired

Event planning · Community building · Team leadership · Operational logistics · Public engagement

Inria Internship- Inria Bordeaux (Research Lab)

Feb 2023–Jul2023 | Bordeaux,France

Studying decision-making and memory processes under uncertainty

- Designed behavioral experiments and cognitive tests.
- Preprocessed and analyzed datasets using Python, Pandas & Seaborn.
- Built reproducible analysis pipelines with Jupyter.
- Conducted sessions with 60+ participants.

Skills acquired

Python · Data analysis · Cognitive experiment design · Scientific reporting · Data visualization · Research collaboration