

SARDAR FAISAL MAHMOOD

Head of Blockchain Solutions | Principal Blockchain Architect

Blockchain Architecture · Multi-Chain Solutions · Technical Leadership

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Professional Summary

Blockchain architect and technical leader with 7+ years across the Web3 stack, now Head of Blockchain Solutions. Specialises in the architecture of tokenized financial assets and DLT settlement in regulated environments, from target architecture and DLT/ledger-model choices to on-chain and off-chain interoperability, security, and compliance. Contributed to an interbank digital settlement currency initiative with major French banks (BNP Paribas CIB, Crédit Agricole CIB, Caisse des Dépôts) and integrated the smart contracts for a production security token offering (Logical Pictures). Hands-on delivery underpins the architecture: smart contracts shipped to mainnet on EVM, a custom Avalanche Subnet through testnet, and direct node operations. PhD-trained, bringing evidence-driven rigour to technical and security decisions.

Technical Skills

Smart contract development: Solidity / EVM · Solana / Rust (Anchor) · Tezos / SmartPy

Blockchain & infrastructure: Avalanche (C-Chain & custom Subnets) · Bitcoin / Lightning / Liquid node operations · Blockstream AMP · Hyperledger Fabric & Indy, Stellar (integration) · Polygon

Standards: ERC-20 / 721 / 1155 / 777 · EIP-2535 (Diamond) · EIP-4337 (Account Abstraction) · EIP-2771

Tooling & integration: Hardhat · Foundry · OpenZeppelin · Ethers.js / Web3.js · IPFS · AWS · Docker · Terraform · CI/CD · Web2-to-Web3 integration

Backend / frontend: Java · Spring Boot · Node.js · TypeScript · Angular · React

Professional Experience

Head of Blockchain Solutions | Principal Blockchain Architect, Metadev3 · *the blockchain arm of Capital B (The Blockchain Group)* · May 2026 to Present · Paris

- Lead the blockchain function: strategy, target architecture, and engineering delivery across client engagements.
- Own chain selection, system design, smart contract structure, and trade-off analysis; lead and mentor the engineering team; present architecture to executive stakeholders.

Blockchain Architect, Metadev3 · 2022 to May 2026 · Paris

- **CodeNekt (2024 to 2025), automotive Web3 ecosystem on Avalanche, in production.** Architect and active developer across three production deliverables:
 - **Custom Avalanche Subnet:** designed the chain architecture and took it through testnet; final mainnet provisioning handled by a specialist node provider.
 - **CodeNekt token (Avalanche C-Chain):** architected the token, supervised development as an active member of the dev team, and executed the mainnet deployment.
 - **Vehicle life-cycle history system:** designed and developed an application recording each vehicle's event history as a single NFT, deployed and live on the Avalanche C-Chain; the client later requested migration to a dedicated Subnet (L1).
- **Blockstream AMP / Liquid (2025, R&D).** Developed a white-label asset-tokenization platform based on Blockstream AMP APIs (Liquid), including node setup and integration.
- **Mostro.xyz (2026), artist-token launchpad on EVM.** Smart contract architecture, full blockchain layer, and dev-team management.
- **Bolero Music (2022), Polygon NFT marketplace.** Led the secondary-market architecture: researched and benchmarked DEX options, selected and adapted the model, then supervised and co-developed the smart contracts.

Web2 & Blockchain Integration Engineer, Iorga Group · 2018 to 2022 · Paris

Built Web2/backend layers and integrated blockchain into enterprise and public-sector platforms, interfacing with smart contracts written by chain specialists and resolving on-chain integration issues.

- **SettleCoin (via The Blockchain XDEV), interbank digital settlement currency PoC: BNP Paribas CIB, Crédit Agricole CIB, Caisse des Dépôts.** Developer and blockchain integrator on the Tezos side: token issuance and settlement mechanics including coupon/compensation logic, integrating against the SmartPy smart contracts with full command of the contract code, supporting atomic delivery-versus-payment for regulated securities.
- **Logical Pictures STO (Tezos, via The Blockchain XDEV), production.** Europe's first media-industry security token offering; integrated the STO smart contracts (KYC onboarding, dividend distribution) and resolved on-chain integration issues.
- **Connected Vehicle Passport (Hyperledger Indy), proof-of-concept for Groupe PSA.** Developed and integrated decentralized-identity functions and the Web2 layer; dashboards for owners, dealers, and insurers.
- **Keolis (Hyperledger Fabric), proof-of-concept.** Developed and integrated permissioned-chain ticket-validation traceability with admin dashboards. Also: Fanlive Rugby, French Ministry of Economy & Finances, CEREMA, Vinci.

Teaching

- **Blockchain Instructor, ESGI Paris** (Mastère Blockchain Engineering, RNCP Level 7): delivered Avalanche and Solana sessions.

Education & Research

- **PhD, Biochemistry / Cellular & Molecular Biology**, Université Paris-XI / Institut Curie (2007 to 2012). Postdoctoral research in cancer biology (Institut Curie) and neuroblastoma (INSERM / Rouen).
- **Java / JEE Professional Training**, GT'M Ingénierie (2017 to 2018). Master 2, Biochemistry, Université Paris-Diderot / Institut Jacques Monod.