

Sarthak Gupta

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TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Solidity, SQL

Frontend / Mobile: React Native, React, Next.js, Vite, TailwindCSS

Backend / Distributed Systems: Node.js, Deno, REST APIs, Microservices, Event-Driven Architecture, PostgreSQL, MongoDB, Redis

Cloud / DevOps: GCP, AWS, Docker, GitHub Actions, Fastlane, CI/CD Pipelines, Firebase

AI / LLM: LangChain, OpenAI API, Agentic AI, LLM Orchestration, Prompt Engineering, RAG, Tool-calling, MCP, Human-in-the-Loop (HITL), Tesseract OCR

Web3: Hyperledger Besu, Fireblocks, Gnosis Safe, Foundry, Ethers.js, Viem, Smart Contracts

WORK EXPERIENCE

ANQ Digital Finserv

Bengaluru, India

Founding SDE & Tech Lead

May 2022 – Present

- **Mobile Platform at Scale:** Architected a React Native app reaching **2.3M+ downloads** and **1.6M+ MAU**; maintained **99.9% uptime** via custom Firebase monitoring across 5+ production Next.js/Vite frontends.
- **High-Volume Payments:** Engineered payment microservices integrating Razorpay and Banking SDKs, processing **120K+ monthly transactions** at sub-**0.1% failure rate** via idempotent webhook reconciliation and event-driven architecture.
- **Backend Performance:** Built Node.js/Deno services handling **10K+ concurrent requests** during flash sales; cut API latency from **450ms to 85ms (81%)** via Redis caching and query optimization.
- **Co-Branded Credit Card (Project Lead):** Led full technical architecture for a regulated credit module, onboarding **650K+ paid users in 4 months**. Enforced RBI-mandated SIM binding and device fingerprinting, coordinated PCI-DSS audits, and integrated Tesseract OCR for PAN/Aadhaar extraction, cutting manual KYC overhead by **60%** and shipping **2 weeks ahead of schedule**.
- **Web3 / RWA Infrastructure:** Architected a public Hyperledger Besu network (9-node QBFT consensus, Chainlist-listed) and shipped an institutional-grade tokenized debt platform with a custom Fireblocks + Gnosis Safe custody layer, enforcing on-chain KYC whitelisting for compliance.

Vadelabs

Remote

Software Engineering Intern

Dec 2021 – Mar 2022

- Migrated legacy React SPA to Next.js SSR, cutting initial page load from **4.2s to 0.9s (79%)**. Designed Pathom3 resolvers to unify 3 microservices into a single graph API over Datomic.

PROJECTS

ARC Wallet MCP: Agentic Payments Infrastructure

2026 · Internal

- Built a local MCP server that lets AI agents make autonomous ERC-20 payments across any EVM chain without exposing private keys. Think *MetaMask*, but for agents.

SynqPay: x402 Payment Protocol Implementation

2026 · Internal

- Implemented the x402 “402 Payment Required” standard on Base Sepolia: ERC-20 paywall with on-chain transaction verification, Redis-backed replay protection, and a credit model handling server-side failures post-payment.
- Engineered pay-per-verification API primitives with preflight endpoints. Powers billing for ComplianceOS and ClearRemit.

ComplianceOS: AI-Native KYC for Indian Fintechs

In Development

- Building a multi-agent KYC/compliance platform with x402-gated pay-per-verification endpoints, targeting RBI-regulated fintechs that need automated PAN/Aadhaar/AML checks without per-seat SaaS lock-in.

ClearRemit: On-Chain Remittance Infrastructure

In Development · Internal

- Designing merchant and customer remittance flows combining a Next.js app with an MCP server surface; escrow wallets on Base Sepolia for settlement.

RAG-Powered CRM AI Agent

2024 · Internal

- Shipped a production LangChain agent with custom tool-calling that pulls, aggregates, and visualizes CRM metrics on demand. Killed the manual database querying that ops was doing daily.
- Added Human-in-the-Loop authorization for sensitive data mutations, so the agent stays autonomous on reads but asks before writes.

EDUCATION

B.Tech, Computer Science & Engineering, Indore Institute of Science and Technology

2019 – 2023