



Mehul Gaidhani

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Building 0 → 1 platforms under ambiguity. Designed and shipped production systems running autonomous agents with real security, reliability, and correctness constraints. Strong product judgment and deep experience turning early user pain into durable infrastructure primitives. Comfortable owning problems end-to-end.

Patents

- **Granted (US 12,437,278 B2)** - Decentralized execution and transaction system coordinating autonomous agents with deterministic settlement and strict trust boundaries.
- **Filed** - Architecture for coordinating transactions across multiple ledgers with consistent state, safety guarantees, and cross-chain settlement.

Experience

Product & Engineering Lead (Early Team)

Mettalex - Fetch AI, Remote | (February 2023 - Present)

Founding technical leader responsible for 0 → 1 product, architecture, and production systems.

- Owned the product, defining roadmap, sequencing milestones, and making build vs ship tradeoffs.
- Authored High-Level Design (HLD) for the entire platform, covering system boundaries, trust assumptions, failure modes, scalability strategy, and on-chain/off-chain separation.
- Produced detailed Low-Level Designs (LLD) for critical subsystems including autonomous agent execution, order flow, matching logic, settlement pipelines, and state reconciliation.
- Designed and built end-to-end hybrid architecture: WebSocket-based real-time data flow → off-chain execution and coordination → deterministic on-chain settlement.
- Shipped and operated mainnet systems handling live user funds, autonomous trading agents, and real-time settlement under production SLAs.
- Owned smart contract architecture and interfaces, including Solidity development, upgrade strategy, audit coordination, and post-deployment fixes.
- Architected cross-chain infrastructure, enabling \$1.5M+ in live asset transfers between Ethereum and BSC.
- Scaled the engineering org from 2 → 12 engineers, setting coding standards, review processes, and ownership culture.
- Led production incident response, debugging, and root-cause analysis across backend services, infrastructure, and smart contracts.
- Owned technical narrative for fundraising and IP strategy, securing \$1M non-dilutive grant funding and serving as co-inventor on 2 filed patents.

Staff Software Engineer

Gaggle Studios, Remote | (April 2022 - July 2023)

- Designed and deployed staking, token, and gaming smart contracts for Goose Goose Duck (4M+ players on Steam), enabling blockchain-based rewards and in-game assets.

- Engineered cloud functions for blockchain interactions and conducted throughput tests across multiple networks to optimize transaction performance.
- Built web3 integration scripts in Python and JavaScript, bridging game backend with on-chain infrastructure for seamless player experience.

Software Engineer

Fetch AI, Remote | (December 2020 - Jan 2022)

- Developed core DEX smart contracts on BSC mainnet, including liquidity pools, token swaps, and staking mechanisms for DeFi platform launch.
- Managed audit process with external security firms, implementing recommended changes and ensuring production-ready contract deployment.
- Built Chainlink oracle integrations using Python and JavaScript cloud functions to enable real-time price feeds and data streaming for DeFi operations.

Software Engineer (Full Stack)

CGI Inc, Bangalore, India | (July 2019 - March 2020)

- Built internal loan management system for banking client, reducing manual errors by 80% through automated validation and workflow digitization.
- Developed coding education platform from scratch for CGI's internal training system, enabling interactive programming exercises and assessments.

UX Intern

Indian Institute of Technology, Guwahati, India | (May 2018 - July 2018)

- Redesigned project management system for IIT Guwahati through user research and stakeholder interviews, streamlining faculty and student workflows.

Projects

memX | shared memory layer for multi-agent systems

[github](#) | 56 ★ | 11 forks

- Built real-time shared memory infrastructure for LLM multi-agent coordination with WebSocket pub/sub, JSON Schema validation, and ACL-based access control
- Developed Python SDK and Docker-compatible deployment system for integration with AutoGen and LangGraph workflows
- Launched hosted service (mem-x.vercel.app) with API key management, enabling developers to prototype collaborative agent systems without infrastructure setup
- Addressed agent-to-production gap by building declarative deployment layer, reducing setup complexity for multi-agent workflows in production environments.

Education

Bachelor of Technology

National Institute of Technology, Rourkela | 2015-2019