

Mirza Ismail Baig

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SUMMARY

Full-stack engineer shipping production Web3, AI, and SaaS products. TypeScript-first across React, Next.js, and Node.js. Built wallet flows, on-chain systems, and high-throughput commerce platforms used by real users. Moves fast with agentic workflows, ships clean with taste.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Solidity

Frontend: React, Next.js, TanStack Start, Astro, Tailwind CSS, Framer Motion, Zustand

Backend: Node.js, Django, FastAPI, Hono, Express, PostgreSQL, MongoDB, SQLite, Drizzle ORM, Prisma, REST, GraphQL, WebSockets

AI: OpenAI API, Claude API, Google Gemini API, AI SDK, RAG, Model Context Protocol (MCP)

Web3: Ethers.js, Viem, Wagmi, Solana Web3.js, Wallet Adapter

Cloud & DevOps: Docker, AWS, Vercel, Cloudflare, GitHub Actions, Git, Stripe

EXPERIENCE

Software Engineer

Apr 2026 – Present

PureSoft Labs OÜ

Remote (Estonia)

- Owned end-to-end delivery of full-stack product features using **React**, **Next.js**, **TypeScript**, and **Node.js**, including an authentication platform overhaul and internal developer tooling that reduced deployment cycle times by **35%**.
- Designed and optimized production REST APIs, database queries, and backend services using **Node.js**, **PostgreSQL**, and **AWS**, improving API responsiveness, reliability, and overall system performance.
- Developed scalable, reusable frontend architecture with **React**, emphasizing component reusability, state management, accessibility, and performance optimization to deliver a consistent user experience across the platform.
- Integrated secure payment workflows using **Stripe** APIs, implementing checkout, subscription management, and webhook-based event handling while ensuring reliable transaction processing and seamless user experience.

Founding Engineer

May 2026 – Aug 2026

Cardinal Web 3

Remote (UAE)

- Architecting the security layer and smart contract infrastructure from scratch using **Solidity** and **TypeScript**.
- Built the on-chain monitoring pipeline, wallet integration flows, and real-time alerting system for **blockchain** threat detection.
- Designed **Web3**-native user flows for wallet connection, transaction signing, and decentralized identity verification.

Full Stack Engineer

Nov 2025 – May 2026

Sherry.gg

Remote (South Korea)

- Led end-to-end development of high-throughput commerce and transactional systems for a production platform, optimizing inventory pipelines and multi-participant workflows to reduce transaction processing time by **30%**.
- Architected scalable client-side infrastructure using **Next.js**, **TypeScript**, and modern state orchestration patterns, improving interface responsiveness and contributing to a **25% increase in user engagement**.
- Designed and integrated production-grade backend services with **Node.js**, **PostgreSQL**, and realtime transactional workflows, improving operational efficiency and booth-level data retrieval by **15%**.
- Contributed to Web3-ready platform architecture including wallet-connected user flows, **blockchain-integrated** transactional patterns, and decentralized payment-oriented interaction systems.
- Resolved complex production issues involving state desynchronization, validation mismatches, frontend-backend consistency, and realtime transaction edge cases, reducing customer-reported issues by **40%**.
- Remediated high-impact platform bugs including revenue allocation inconsistencies, browser-specific rendering failures, and edge-case state resets to improve transactional reliability and platform stability.

Founding Engineer

May 2025 – Jun 2026

Exzyt.com (Acquired)

Remote (UAE)

- Architected and launched a full-scale real estate platform from the ground up using **Next.js**, **TypeScript**, and **Tailwind CSS**.
- Built advanced frontend workflows for document management, deal rooms, and live collaboration with strong focus on UX, performance, and reliability.

- Integrated **AWS services** including **S3** and **CloudFront** for scalable document storage and low-latency global delivery.
- Explored **blockchain-based document verification** and on-chain metadata anchoring to improve trust and integrity of transaction records.
- Collaborated directly with stakeholders to translate product requirements into production-ready features through CI/CD pipelines.

Forward Program Fellow

Mar 2025 – Sep 2025

McKinsey & Company

Remote

- Selected for McKinsey's competitive Forward Program, developing structured problem-solving frameworks applied to real business cases.
- Built stakeholder communication and leadership capabilities through cross-functional team exercises and case-based learning.

Frontend Developer

Jan 2025 – Jun 2025

Minimalisticlearning

Remote (UK)

- Developed reusable, high-quality user interfaces using **React** and **TypeScript** for scalable web applications.
- Optimized component rendering, layout responsiveness, and state management to deliver smooth cross-device performance.
- Integrated REST APIs and structured client-side data flows to support complex application workflows and real-time updates.
- Contributed to modern **Web3-ready frontend architecture**, exploring **wallet interaction flows**, decentralized app (**dApp**) UI patterns, and blockchain-connected user interfaces.
- Participated in code reviews and implemented UX and performance improvements that enhanced overall usability and product consistency.

Software Engineer

Aug 2024 – Dec 2024

Datapoint IT Tech Pvt Ltd

Remote

- Developed and maintained **RESTful APIs** using **Node.js** to support frontend and partner integrations.
- Optimized server-side logic and database queries to reduce API latency and improve system throughput.
- Implemented secure authentication and authorization mechanisms for scalable backend services.

PROJECTS

Tokamak Chain Monitor — L2 Observability & Analytics Platform (Live Demo)

2026

Next.js 15, TypeScript, Python, Django, Viem, TanStack Query, Tailwind, AI SDK

- Engineered a **real-time observability platform** for Tokamak L2 rollup chains — surfacing network health, block production, EIP-1559 gas analytics, and L1↔L2 synchronization status — backed by **Viem RPC clients** with resilient multi-endpoint fallback for live block, fee, and transaction telemetry across networks.
- Built **Python/Django backend services** with asynchronous ingestion pipelines that separate **collection, normalization, and API delivery**, aggregating raw RPC blockchain data into structured REST endpoints for chain-health, historical-metric, and analytics workflows.
- Architected a modular **Next.js + TypeScript** frontend using **TanStack Query** for caching, interval polling, request deduplication, and near-real-time metric synchronization, with cross-chain dashboards and a **client-side PDF reporting pipeline** for exportable network-health summaries.
- Developed a **tool-based AI analysis agent** (Vercel AI SDK) enabling **natural-language querying** over live network telemetry and structured on-chain analytics.

Sentry — Autonomous Browser Agent (Live Demo)

2026

Next.js 15, React 19, TypeScript, Vercel AI SDK, Playwright (CDP), Claude, Browserbase

- Architected an **autonomous browser agent** that decomposes natural-language goals into multi-step web workflows, driving real Chrome via **DOM-level control over the Chrome DevTools Protocol** (Playwright **connectOverCDP**) — semantic **navigate/click/type/read** actions over brittle pixel-based automation — in a **transport-agnostic session layer** spanning a remote **Browserbase** cloud browser in prod and local Chrome in dev.
- Engineered a **multi-step agentic loop** (**streamText + stepCountIs**) with SSE streaming on a 300s serverless budget, plus resilient recovery heuristics — CAPTCHA/login-wall detection, alternate-source fallback, and dead-end backtracking — for reliable unattended runs.
- Built an **evidence-first observability pipeline**: a real-time screenshot filmstrip and per-action timeline capturing exact page state at each decision point, exported as auditable **proof receipts with SHA-256 integrity hashing** of the action trace.

SolTerminal — DeFi Trading Terminal (Live Demo)

2026

Next.js, TypeScript, Tailwind CSS, Solana Wallet Adapter

- Built a **high-performance DeFi trading interface** with real-time market data, interactive charting, and seamless Solana wallet integration.
- Implemented **trade execution flows** with pre-trade analytics — slippage, fees, and price-impact estimation — surfaced before confirmation.
- Designed a **live portfolio tracking system** with real-time position updates and streamlined UX for retail traders.

BugBuster — GitHub Issue Analyzer (Live Demo)

2025

Next.js, Node.js, Express, SQLite

- Built a **full-stack issue-analysis platform** with REST APIs that ingest, structure, and analyze GitHub issue data to accelerate triage.
- Designed a **developer-focused UI** that streamlines debugging workflows and improves issue-triaging efficiency.
- Optimized backend performance through **indexed query handling** and normalized response structuring.

EDUCATION

Osmania University

Bachelor of Engineering in Computer Science

- GPA: 8.7/10.0

India

May 2025