

MUHAMMAD MUHTASHIM ALI

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PROFESSIONAL SUMMARY:

Technical Lead and Full Stack Engineer with 7+ years of experience building production-grade, high-availability systems and leading distributed teams for global organizations. Specializes in AI-native and agentic development — designing agent workflows, no-code MCP Servers that let external clients like Claude and ChatGPT connect, and RAG pipelines over graph and vector stores using LangChain and LangGraph. Combines this with deep full-stack engineering across Node.js (NestJS, Express), TypeScript, React, and Next.js, backed by strong system design, API architecture, and data modeling on PostgreSQL, Redis, and BullMQ. Proven track record owning end-to-end delivery from architecture and API reliability to frontend experience and production deployments on AWS, while mentoring engineers and setting technical direction.

SKILLS SUMMARY:

- **AI & Agents:** Agentic development, MCP Servers, LangChain, LangGraph, RAG, LLM integrations
- **Languages:** JavaScript, TypeScript, Python, Java
- **Backend Development:** Node.js, NestJS, Express, Python (FastAPI)
- **Frontend Development:** React.js, Next.js, Redux, React Hooks, React Native
- **APIs & Real-Time:** REST, WebSockets/Sockets, BullMQ (queues & background jobs), event-driven architecture
- **Databases:** PostgreSQL, Graph DB, Vector DB, MongoDB, Redis, Sequelize/Prisma
- **DevOps & Testing:** Docker, CI/CD (GitHub Actions), Jest, Serverless
- **Cloud Platforms:** AWS, GCP, Digital Ocean
- **Integrations:** Web3.js, Moralis SDK & APIs, Ethers.js, The Graph, External APIs
- **Project & Team Management:** Leading distributed teams, Jira (workflows, sprint boards), Slack integrations, cross-team coordination

PROFESSIONAL EXPERIENCE:

Technical Lead – Transworld ([eSoft](#))

Islamabad, Pakistan | December 2025 – Present

- Leading a team of 4 full-stack developers building AI-native agentic systems using structured, trackable development approaches.
- Architected backend services and agent workflows using FastAPI, NestJS, PostgreSQL, Vector Databases, and Graph Databases.
- Built frontend interfaces with Next.js and Prisma, with containerized deployments via Docker.
- Owned system architecture, delivery quality, and technical direction across the team.

Technical Lead – [Avocado DAO](#)

Singapore (Remote) | April 2022 – November 2025

- Led distributed engineering teams delivering multiple production systems supporting thousands of active users, owning system architecture, API design, and production deployments.
- Owned system architecture, API design, and database modeling using Node.js and PostgreSQL.
- Managed deployments and infrastructure on AWS (EC2, S3, Lambda).
- Mentored junior engineers and improved delivery quality through code reviews and technical guidance.

Senior Full Stack Engineer – [Optimusfox](#)

Lahore, Pakistan | September 2019 – March 2022

- Led a team of 8 developers building distributed, data-driven systems using Node.js, Serverless, and PostgreSQL, with ownership of API reliability and deployment stability.
- Designed API workflows, system diagrams, and database schemas.
- Collaborated with cross-functional teams on multiple projects.

Associate Software Engineer – [CQ Technologies](#)

Bahawalpur, Pakistan | August 2018 – September 2019

- Built and maintained backend features and REST APIs using Node.js and MongoDB for client-facing web applications.
- Contributed to frontend development in React.js and supported bug triage, testing, and release deployments.

EDUCATION:

BSCS (Bachelor of Science in Computer Science)

COMSATS University Islamabad (2015 - 2019)

PROJECTS:

Nexus AI (Multi-Tenant AI Agent Platform)

Enterprise multi-tenant AI platform providing control surfaces for AI agents, a visual AI Workflow Builder, graph and vector knowledge stores, and voice agents, plus a no-code MCP Servers module and full SaaS management tooling.

- Built a no-code MCP Servers module allowing users to compose servers from a Tool Repository, attach credentials, deploy with API-key/OAuth authentication, and monitor analytics — enabling external clients including Claude, ChatGPT, Cursor, and VS Code to connect.
- Designed multi-tenant architecture with authentication, tenancy isolation, and feature gating driven by role/feature gates and a SaaS-vs-dedicated deployment-mode flag.
- Implemented hybrid knowledge stores combining graph and vector retrieval to power agent context and RAG workflows.
- Delivered SaaS management surfaces covering customers, billing, pricing, rate limits, guardrails, and audit logging, plus two embeddable chat widgets for customer-facing deployment.

Marked (AI Assessment Platform for GCSE Subjects)

AI-powered improvement platform for essay-based GCSE subjects, launching with English Language and Literature and architected to expand into History, Religious Studies, Sociology, Psychology, Economics, and A-Levels.

- Designed a deterministic 3-layer marking pipeline (AI feature extraction, rule-based grade mapping in pure TypeScript, AI feedback generation) that guarantees identical grades for identical submissions, eliminating the output variance typical of direct LLM grading.
- Architected a Turborepo/pnpm monorepo with a NestJS + Prisma/PostgreSQL API, Next.js frontend, and BullMQ workers handling asynchronous marking jobs.
- Built engagement systems driving daily revision habits through streaks, drills, and gamification, and a family plan giving parents visibility via automated weekly digest emails.
- Currently leading v2 roadmap execution to extend written-answer assessment coverage across UK education.

Stiqy ([Stiqy](#))

Led a team to develop a web3-based marketing tool for communities in the blockchain gaming space. More than 90+ blockchain networks are supported across the platform using 3rd-party tools like Moralis and The Graph. Led the team in developing the pricing model with which communities can pay using stablecoin or fiat; supports all EVM chains for stablecoins like USDC and USDT, and Stripe was used for fiat payments.

- Designed and implemented backend systems using Node.js, TypeScript, and PostgreSQL to support thousands of users.
- Built scalable APIs and storage solutions using AWS S3.
- Developed a configurable asset-generation pipeline with deterministic logic and structured metadata, designed for consistency and downstream system consumption.
- Contributed to overall system architecture and performance optimization.

OnChain Identity/Progress Verification Soulbound NFTs ([Avocard-0](#))

Blockchain-linked user identity and activity tracking system.

- Designed backend services to synchronize user activity with immutable external records, ensuring consistency between internal systems and external data sources.
- Built APIs to aggregate and expose historical user activity for downstream products.
- Implemented secure storage and data access using PostgreSQL (Supabase) and AWS S3.

Content Based Platform for web3 communities ([Avocado DAO](#))

Gamified engagement platform focused on user retention and progression.

- Designed and scaled backend systems supporting levels, ranks, rewards, and virtual currency.
- Built secure and performant APIs using Node.js and PostgreSQL.
- Developed frontend features using Next.js and Redux for dashboards and user interfaces.
- Improved engagement by supporting multiple quest types and automated reward logic.

NFT Marketplace ([BloCommerce](#))

Digital asset marketplace enabling minting, trading, and wallet management.

- Built backend services using Node.js, AWS Lambda, and PostgreSQL to support asset minting and trading.
- Designed wallet aggregation features displaying balances, NFTs, and transaction histories.
- Implemented serverless deployments and cloud storage using AWS S3.

Carbon Emission Tracking System ([Blulabel](#))

A platform focused on sustainability tracking in the fashion industry.

- Developed backend services for tracing environmentally harmful materials across supply chains.
- Built admin dashboards and mobile applications for data visibility and reporting.
- Worked with Node.js, MongoDB, AWS Lambda, and React / React Native.

Asset Backed Token Marketplace ([Dinisium](#))

White-label trading platform for blockchain-backed financial assets.

- Developed backend APIs for investor portals and transaction tracking on Ethereum.
- Supported multiple user roles including Super Admin, Admin, and Investors.
- Built web and mobile applications using React and React Native.

Multi-Currency Crypto Wallet (Mobile App - React Native)

- Developed backend and mobile applications supporting Ethereum and ERC-20 tokens.
- Implemented wallet creation, import, transaction tracking, and security features.

REFERENCES:

Alvin De Cruz

Avocado DAO

Head Of Engineering

Link: <https://www.linkedin.com/in/alvindecruz/>

Danyal Ahmad

Funavry Technologies

Blockchain Architect

Link: <https://www.linkedin.com/in/deenorio/>