

Usama Mangi

Lahore, Pakistan | +923238027692 | usamamangi.tech@gmail.com
github.com/usama-mangi | linkedin.com/in/usama-mangi | usama-mangi.tech

PROFESSIONAL SUMMARY

Full-stack engineer with 18 months of production work building multi-file TypeScript systems (React, NestJS, Express) packaged as reproducible, containerized dev environments with Docker, CI, and deterministic tests. Recent work: a NestJS and React SaaS shipped behind Docker Compose, a published Hono-vs-Express benchmark with Autocannon scripts, and an LLM code-review pipeline whose tests gate merges.

EXPERIENCE

- ZynSols** Remote
Full-Stack AI Engineer Aug 2025 – May 2026
 - Multi-Service Architecture:** Architected career-autopilot, a NestJS 11 and React 19 SaaS (PostgreSQL, BullMQ, Docker Compose) with a multi-service backend (API, worker, scheduler) and a versioned prompt manifest, cloned and runnable in one command.
 - Deterministic Testing and CI:** Built a deterministic test pipeline (Jest, Supertest) with a GitHub Actions matrix on Node 20 and 22 plus load tests on critical paths; failures block merge on the protected main branch.
 - Containerization and Benchmarking:** Containerized an LLM code-review bot (Express, BullMQ, Redis, Kimi-K2 and OpenAI) and published a Hono-vs-Express benchmark on Bun with Autocannon scripts and REPRODUCE.md: 8.2x throughput (31K vs 3.8K RPS), 53x lower latency.
- Indus Tech Nexus** Remote
React Native Mobile App Engineer Jun – Jul 2026
 - API Development and Containerization:** Shipped 2 Express and PostgreSQL REST APIs handling 10K requests per day, containerized with Docker, with input validation and structured error envelopes.
 - Continuous Integration:** Set up CI to run the test suite on every pull request before merge.
 - Documentation and Reproducibility:** Documented setup, environment variables, and migration steps in CONTRIBUTING.md so a fresh checkout reproduces the dev environment without tribal knowledge.

SELECTED PROJECTS

- Kushim** [GitHub Code](#)
NestJS, Next.js 15, PostgreSQL, Redis, containerized, AWS-deployed with IaC and a runbook.
- DevOps Pipelines** [GitHub Code](#)
Reference GitHub Actions and Docker workflows demonstrating cached layers and reproducible, deterministic builds for multi-service projects.
- AI Code Review Bot** [Live Link](#) - [GitHub Code](#)
Express, BullMQ, Redis, PostgreSQL, Kimi-K2 and OpenAI packaged as a Docker image with a versioned prompt manifest and Jest contract tests.
- Water Quality AI System** [GitHub Code](#)
React, Express 5, PostgreSQL, Python and Flask inside a Docker Compose stack, with reproducible seeded data and a per-service runbook.
- Hono vs Express Benchmark** [GitHub Code](#)
Hono, Express 5, Bun, MongoDB, Autocannon scripts with CSV output and REPRODUCE.md so other teams can re-run the comparison.
- Epoch** [GitHub Code](#)
NestJS 11, Next.js 16, Prisma, PostgreSQL, Tailwind CSS; multi-file service with Docker Compose, Jest contract tests, and a structured CONTRIBUTING.md.

TECHNICAL SKILLS

- Languages:** TypeScript, JavaScript, Python, SQL
- Frameworks:** React, Next.js, NestJS, Express, Hono, Flask
- Infrastructure & Reproducibility:** Docker, Docker Compose, GitHub Actions CI, Nginx, Azure, Vercel, Render, Redis, PostgreSQL, MongoDB
- Testing:** Jest, Supertest, React Testing Library, Autocannon (load testing), Bun test runner
- AI Tooling:** OpenAI API, Anthropic Claude, prompt-engineered review pipelines, vector retrieval

EDUCATION

- Sukkur IBA University** Pakistan
BSc Computer Science; GPA: 3.2 2022 – 2026

CERTIFICATIONS

- Anthropic Claude Code 101 • Google AI Professional Certificate • Meta Version Control • HackerRank Frontend (React)