

Misbah Khursheed

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Professional Summary

I've been coding since I was 9, and I've always loved solving problems since then. I'm a full-time Founder/Engineer and a part-time blog writer about how the world is moving faster than it ever has before. I try to pick things up quickly, and I usually learn best by building rather than just reading about something. Still figuring a lot of it out as I go.

Education

City Montessori School , Gomti Nagar 1

Lucknow

High School | 2021-2026

- Scored 96.25% in Class XII ISC Boards (Science + CS)
- Scored 95.6% in Class X ICSE Boards (Science + Computers)

Technical Skills

Programming & Systems: JavaScript, TypeScript, Python, Java, Rust, HTML/CSS, System Design, API Design

AI / ML: Agentic Infrastructure, OpenAI API, Anthropic API, LLM Fine-Tuning, Embedding Models, Retrieval-Augmented Generation (RAG), Vector Databases (pgvector), AI Agents, Agentic Workflows, Model Context Protocol (MCP), Prompt Engineering, LLM Evaluation

Developer Tools & DevOps: Git, Docker, GitHub Actions, CI/CD, Caddy, nginx, Linux, Cursor, Claude Code, OpenAI Codex, Vercel

Databases & Infrastructure: AWS (EC2/GPU Instances, Bedrock, SageMaker), PostgreSQL, pgvector, Microsoft Azure, SQLite, Self-Hosted Services, Multi-Tenant Architecture, Cloud Deployments

Hardware: ESP32, Arduino, Raspberry Pi, Embedded Sensors & Actuators

Creative: Blender, Adobe After Effects, Premiere Pro, Illustrator

Selected Projects

- **Rey** - Built a systems-level compiled programming language with a Rust-based interpreter and module system, reaching v0.2.0+ with generics and a VSCode extension, by designing the compiler pipeline, import system, and language spec from scratch. github.com/rey-language/rey
- **Syphon** - Built a signed MCP package registry for AI agents, delivering ed25519-signed publishing and device-flow OAuth across Claude Code, Cursor, Windsurf, and Codex, by building the Rust CLI, Next.js registry on Supabase, and 7 seed packages end-to-end.
- **mstack** - Crossed 1,000+ npm downloads for an AI-native engineering runtime and CLI, by architecting the developer experience, release engineering, and CI/CD pipeline solo. github.com/imisbahk/mstack
- **Infinicon** - Extended AI agent context beyond native token limits by building an open-source SDK for persistent memory and retrieval, enabling agentic applications to maintain state across sessions through custom memory and context-management APIs. infinicon.vercel.app
- **StudyBar** - Reached 100+ downloads for a macOS menu bar productivity app by building gamified study tracking with native desktop integration in Swift. <https://misbahkhursheed.vercel.app/studybar>
- **Know Your Lucknow** - Launched a hyperlocal city discovery platform that combines events, local business listings, and community features, built on Next.js, Supabase, PostGIS, and MapLibre. <https://knowyourlucknow.vercel.app/>

Professional Experience

Sunbeam

Founder & Head of Engineering | **Hybrid**

Jan 2026 – Present

1. Served 5+ clients, delivering custom software and agentic AI infrastructure, by leading architecture, technical decision-making, and end-to-end delivery from discovery through deployment.
 2. Built Sunbeam's entire internal tooling stack, including a self-hosted mail server, a meeting management platform, and a company CRM.
 3. Built Sunny, an internal AI agent suite handling email triage, meeting-recording processing, and sales/lead workflows.
- sunbeam.agency

firstDraft

Co-Founder & Executive Director | **Remote**

Jul 2025 – Jun 2026

Scaled a social collaboration and creator platform to 10,000+ users and 1M+ requests, by designing the platform architecture, AI workflows, and core product experience solo. firstdraft.in

DotStreams Lab

Tech Executive (prev. Web/App Development Intern) | **Remote**

Dec 2024 – Apr 2026

Promoted to Tech Executive after building a web audio player's audio processing pipeline in Rust compiled to WebAssembly, by optimising performance-critical DSP code for the browser and shipping it to production. Continued technical execution across web and app development for 1+ years.

Key Achievements

1. *5× Hackathon Winner* across regional and national competitions
2. *Participant, Y Combinator Startup School India 2026*, Bangalore
3. *AI Day for Startups 2026*, Google Developer Groups, Lucknow
4. *First Prize, National Kalam Fest Science Innovation Competition 2022* (100+ participating schools)
5. *Best App Winner, CodeDay Lucknow 2024* (150+ participants)
6. *Workshop Speaker, "In Error We Trust" AI Workshop at CodeDay Lucknow 2025* (100+ attendees)
7. Organised and hosted technical workshops, hackathons, and developer events for student communities
8. Served as a hackathon judge, evaluating projects across software engineering and AI
9. Multiple award recipient at Model United Nations (MUNs)