HARSH JOSHI

Forward-deployed AI engineer · Founder, ReallyArtificial.org

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EDUCATION

B.Tech, Computer Science
UPES Dehradun · **9.03 CGPA**
2017 – 2021

CORE SKILLS

AI / Agents
MCP · Agentic systems · Evals & benchmarks · RAG · LLM orchestration · AutoGen · OTel GenAI · HITL · Agent memory

Languages
Python · TypeScript · Java · Swift · SQL · Dart · Node.js

Frontend / Mobile
React · Next.js · SwiftUI · Flutter · Tailwind

Backend / Infra
FastAPI · Kafka · Redis · Spring · AWS · GCP · Docker · Microservices · DDD · Event-driven

HIGHLIGHTS

- **40+ npm packages** as @josharsh
- **100LinesOfCode** · 500+ ★
- **Speaker**, Developer Week 2024
- **OSS Instructor**, KodeKloud
- **Microsoft Learn Ambassador**
- **GSoC 2020** · peer/auto-grading evals (Submitty)

RESEARCH

"Correspondence of Natural & Artificial Cognition in Classifier Systems"
IJSER, Vol. 11 · 2020

WRITING

Unengineered (Substack)
Short essays on engineering, AI, and product. Recent: "Thick vs Thin agent harness", "The 2023 vs 2025 gateway problem".

AWARDS

Meritorious Scholarship
University Silver Medal for Academic Performance, UPES

Microsoft Student Partner
Microsoft, 2019–20

EXPERIENCE

ParallelLoop.ai
2025 · 6 months

Founding team & Forward-Deployed AI Engineer — Remote, India

- An "AI operating partner" for regulated enterprises: the same playbook OpenAI runs as AI Deployment Engineering.
- Forward-deployed with **Cleartrip**, **Bharatsure**, **100ms**, **Putting Scene**. Diagnosed workflows, prototyped agents, shipped production AI with evals and HITL.

Coupang
Oct 2025 – Present

Senior Software Engineer — Bengaluru

- Architected distributed WMS across **100+ fulfillment centers** powering millions of daily orders for **20M+ users** at 99%+ <24h SLAs.

Visa (Authorize.Net)
Mar 2024 – Oct 2025

Senior Software Engineer (L5) — Bengaluru

- Pioneered 0→1 applied-AI on Authorize.Net: dev-productivity agents, QA automation, churn analysis, MCP-based agentic tooling, aligned with Visa's Intelligent Commerce direction.
- Led re-architecture of the flagship payment gateway: **500+ TPS, 445K+ merchants, $200B+ annualised**. Shipped unified onboarding adopted by Bank of America.

Qoala
Side engagement

GenAI Consultant, AI Products — Southeast Asia · Remote

- Customer-facing AI deployment for a SE-Asian insure-tech (**50K agents · 1M users**). Shipped a GenAI motor-inspection platform (**10K+ monthly inspections**) and Qoala's first AutoGen agentic cross-sell system.

Plum
Jan 2021 – Feb 2024

Founding Software Engineer → Sr. SDE-III — Bengaluru

- Wrote the first line of code for policy purchases, enrollments, retail insurance, and health benefits: the canonical early-stage startup engineer arc.
- Sole engineer on v1 of Plum's iOS app shipped end-to-end to App Store.
- Led architecture for the health-benefits marketplace: **500K+ users · 4K+ enterprises · +50% adoption**. The platform now backs **6K companies, 600K+ lives**.

INDEPENDENT

ReallyArtificial.org
2024 – Present

Founder & Maintainer — Open Source

- **MCP-JEST**, first eval/test framework for MCP servers · **aa-kit** (PyPI), MCP-native Python agent framework · **Engram**, agent memory.
- **Approval Protocol**, human-in-the-loop + LangChain · **Freeport**, multi-provider LLM gateway · **Grain**, agent-definition format.
- Co-authored with @fridayjoshi, an autonomous AI agent I built.

SHIPPED: APPS & PRODUCTS

- **Tongue** (iOS, SwiftUI): voice-AI language tutor, live on the App Store.
- **Lockbox** (iOS, SwiftUI): credentials manager, live on the App Store.
- **Friday**: autonomous AI assistant with its own GitHub identity (@fridayjoshi).
- Developer tools: **Quark** (product-idea agents), **Otterly** (Claude as OpenAI shim), **Xeli** (AI terminal sheet), **Claude CTO** (Claude Code dashboard).