[OPERATOR PROFILE / RESUME]

RESUME

Performance Engineer · Mechanical Engineering student at BIT Bengaluru · Bengaluru, India · Remote

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// PROFILE

Performance engineer based in Bengaluru, India. I set latency, memory and frame budgets before a feature exists, profile the shipped build, and publish the number that moved. The work spans Go WebRTC-to-SIP gateways, real-time marketplaces, full-stack platforms, and private LLM pipelines that run entirely on the phone. Currently a freelance Performance Engineer at Permissionless Inc. while completing a B.E. in Mechanical Engineering at Bangalore Institute of Technology.

// EXPERIENCE

Performance Engineer (Freelance)

2024 - Present

Permissionless Inc. · Remote

- Led end-to-end development of a digital service marketplace over a 6+ month engagement: secure checkout, analytics dashboards, inventory management, and an automated admin portal that generated order-specific PDFs, organised files by order ID, and enabled bulk uploads with automated customer download notifications.
- Built an internal cross-platform desktop app in Electron for querying company docs via a RAG chatbot, with semantic search, source attribution with highlighted references, and context-aware QA.
- Co-developed an AI meeting assistant that joined Google Meet and Zoom calls, recorded conversations, generated summaries, and integrated Web3 payment infrastructure for subscriptions.
- Profiled and repaired the paths users actually feel: WebRTC audio routing on iOS, ghost-call billing leaks, and local LLM inference held inside a 4 GB memory ceiling.

// EDUCATION

Bachelor of Engineering, Mechanical Engineering

September 2023 - June 2027

Bangalore Institute of Technology (BIT)

// TECHNICAL SKILLS

[PERFORMANCE & PROFILING]

Latency budgeting · Chrome DevTools · React Profiler · Core Web Vitals · Frame pacing · Memory profiling · Bundle analysis · Load testing

[LANGUAGES]

TypeScript · JavaScript · Python · Go · Swift · Kotlin · SQL · C++

[BACKEND & FRAMEWORKS]

Node.js · Express.js · Next.js · React · React Native (Expo) · FastAPI · Prisma ORM · LangGraph

[MOBILE & REAL-TIME]

iOS (SwiftUI, CallKit) · Android (Kotlin, Compose) · WebRTC (Pion) · SIP / VoIP · Socket.IO · WebSockets

[AI & ON-DEVICE INFERENCE]

llama.cpp · llama.rn · whisper.rn · whisper / faster-whisper · Qwen · MCP (Model Context Protocol) · Semantic Search

[DATABASES & INFRA]

PostgreSQL · Redis · SQLite · MongoDB · Supabase · Docker · GitHub Actions · Cloudflare · Vercel · Linux

// SELECTED PROJECTS

[01]	**Wordle – Retro Edition**	MOBILE GAME / REALTIME · 2026
[02]	**Work Console**	MACOS / AI TOOLS · 2026
[03]	**Cleriko**	MARKETPLACE / INFRASTRUCTURE · 2024-Present
[04]	**Fancall**	REALTIME / TELEPHONY · 2024-Present
[05]	**Haven AI**	ON-DEVICE AI / MOBILE · 2025
[06]	**NewsTok / Everything Blog**	AI NEWS / PLATFORM · 2024-Present
[07]	**Blender MCP Server**	OPEN SOURCE / AI PROTOCOL · 2025
[08]	**Um**	ON-DEVICE AI / iOS · 2026

[AVAILABILITY / TRANSMISSION]

// CONTACT & AVAILABILITY

Available for performance work, freelance engineering, co-founding, and full-stack or mobile roles. Everything below reaches me directly.

EMAIL	kushal.s.2005@gmail.com	PHONE	+91 7619552810
GITHUB	github.com/kushalsrinivas	LINKEDIN	linkedin.com/in/kushal-s075
LOCATION	Bengaluru, India · Remote	STATUS	Open to performance work, freelance, co-founding & full-stack / mobile roles