

Abhin Krishna

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PROFILE

Engineering undergraduate (Minor in AI) who builds and ships production web software. Creator of open-source, privacy-first tools used by 45,500+ people, with hands-on experience in real-time P2P networking (WebSockets, WebRTC), serverless edge infrastructure (Cloudflare Workers), self-hosted proxies and client-side security engineering.

EDUCATION

Govt. Model Engineering College (MEC), Thrikkakara Kochi, India
B.Tech, Electronics and Biomedical Engineering | Minor in Artificial Intelligence Sep 2024 - 2028 (Expected)

TECHNICAL SKILLS

- **Languages:** Python, JavaScript (ES6+), TypeScript, C, C++.
- **Web & Backend:** Vue 3, React, Vite, Tailwind CSS, Flask, FastAPI, Express, WebSockets, WebRTC, WebAssembly.
- **Cloud & DevOps:** Cloudflare (Workers, Durable Objects, Pages, KV), Docker, Linux administration, DigitalOcean, Git.
- **Networking & Security:** P2P and Bluetooth LE mesh networking, proxy deployment (MTProto), abuse prevention, privacy-by-design, image forensics.
- **AI/ML:** PyTorch, TensorFlow, OpenCV, Edge AI on ESP32-S3.

EXPERIENCE

Tencent AI Lab | *Research Intern (Remote)* Dec 2024 - May 2025
• Research in ML, NLP and LLMs for open-source AI initiatives, including neural network optimization and model evaluation.

FOSSMEC (Open-Source Community, MEC) | *Secretary* Jun 2025 - Present
• Mentored 100+ first-year students as lead instructor for workshops on Git/GitHub, Linux and virtualization.
• Led “Build It Up,” a technical workshop on full-stack DBMS project deployment using Supabase, Express, and Next.js.

PROJECTS

Gomalle: Anonymous P2P Chat Platform | *React, Cloudflare Workers, WebSockets, WebRTC* gomalle.lol
• Built a real-time anonymous text and video chat platform for college students; once matched, media and messages flow peer-to-peer between browsers, keeping user data off the server with low latency and low hosting cost.
• Designed WebSocket matchmaking on Cloudflare Durable Objects for race-free 1-on-1 pairing at the edge, plus abuse controls (anti-spam, IP blocking, device-level bans).

Gemini Watermark Remover | *Vue 3, Vite, Tailwind CSS* removewatermark.dev
• Open-source, 100% client-side tool that removes the visible Gemini watermark from AI images and Veo videos; 250+ GitHub stars and 16,500+ users.
• Implemented a mathematically exact Reverse Alpha Blending algorithm that restores original pixels with zero quality loss, entirely in the browser with no uploads.

Metadata Cleaner | *Vue 3, TypeScript, Pinia, WebAssembly* abhinkrishna.com/metadata-cleaner
• Privacy-first web app to inspect, edit, strip and export metadata from images, video, audio, documents and archives, with no uploads, analytics or telemetry; works offline as an installable PWA.
• Runs ExifTool 13.x compiled to WebAssembly inside a Web Worker, matching command-line output while keeping the UI responsive.

BitChat-CLI | *Python, Bluetooth LE* GitHub
• Command-line client for bitchat, a secure, decentralized peer-to-peer messenger over Bluetooth mesh networks, built to interoperate with the original Swift app by implementing its protocol.

Reverse SynthID: AI Watermark Forensics Lab | *Python, Flask, SciPy, PyWavelets, OpenCV.js* GitHub
• Forensic tool to detect Google’s invisible SynthID watermark via wavelet (db4) noise extraction, residual amplification and FFT analysis against known carrier frequencies; Flask backend plus an OpenCV.js in-browser version.

Self-Hosted Network Infrastructure | *Linux, Docker, VPS, TON*
• Deployed a personal MTProto proxy on a Linux VPS with Docker and secret-based access control; hosted a website on the TON blockchain network via TON Proxy.

ACHIEVEMENTS & CERTIFICATIONS

- **IEEE HART HardwAire Challenge 2026:** Phase 2, top 50 teams globally (ThermaSense, LoRa sensor node).
- **Certifications:** Claude Code in Action, Intro to Claude Cowork (Anthropic); AI Fundamentals (Google); Digital 101 (FutureSkills Prime).
- **HPAIR 2025 Delegate** (Harvard Project for Asian and International Relations); Brain Modeling Workshop, IIT Madras.