

Aryan Rai

+91 8805344336 | aryanrai746@gmail.com | github.com/ask-elad | [LinkedIn](#)

SUMMARY

Student at IIT Roorkee seeking a Software Engineering Internship (Backend/Systems). Have contributed merged PRs to a Cloud Native Computing Foundation (CNCF)-graduated project and built production-quality systems in Go and TypeScript. Comfortable working across backend services, distributed systems, and developer tooling.

EDUCATION

Indian Institute of Technology, Roorkee Aug. 2023 – May 2027
Bachelor of Technology

EXPERIENCE

Season of KDE (SOK) – Internship [Open Source Contributor – KDE](#) **Jan 2026 – Mar 2026**

- **Standardized UI card components** across mentorship.kde.org, removing 6+ duplicate implementations and improving visual consistency for 500+ monthly visitors. [[Merged PR](#)]
- **Built and shipped a new /programs page** using Hugo, now one of the top entry points for users discovering the KDE ecosystem. [[Merged PR](#)]
- Refactored the blog and resource publishing workflow, **reducing the number of steps for admins from 5 to 2** and enabling non-technical contributors to self-serve.

Open Source Contributor *Inspektor-Gadget – CNCF Graduated Project* **Dec. 2025 – Present**

- Added a **verify** CLI command in Go that **validates eBPF gadgets against OCI** registries without running them locally, removing a multi-step manual process for all ig users. [[PR #5010 – Merged](#)]
- **Fixed a Docker registry host normalization bug** in the OCI image push workflow that was silently breaking credential reuse from `~/docker/config.json` for self-hosted registries. [[PR #2299 – Merged](#)]

PROJECTS

[TwinMind: AI Meeting Copilot](#) | *TypeScript, React, Node.js, WebSockets, Groq API* **April 2026**

- Built a real-time **AI meeting copilot** in TypeScript using **Groq Whisper Large V3 for live transcription and openai/gpt-oss-120b for context-aware suggestions**, served over a persistent WebSocket with a bi-directional typed message protocol.
- Designed a dual-layer prompt architecture with conversation-state detection that **dynamically selects suggestion types based on real-time transcript signals**; implemented Groq SSE streaming for the chat panel and a server-side **noise filter to discard Whisper hallucinations before they reach the LLM**.

[Network Proxy](#) | *Go, HTTP/HTTPS, TCP, TLS, Concurrency* **Dec. 2025**

- Built a forward proxy in Go with automatic protocol detection (HTTP vs. HTTPS) and TLS tunneling via the CONNECT method. **Handles 50+ concurrent connections using goroutines and channels**.
- Added **middleware support for logging and request filtering**, with documentation for local setup.

[Digital Canvas](#) | *TypeScript, React, Node.js, PostgreSQL, Prisma, WebSockets, Turborepo* **Sept. 2025**

- Built a real-time **collaborative whiteboard using WebSockets for low-latency** live updates across multiple users. Designed the Prisma schema to persist canvas state and handle concurrent sessions correctly.
- Structured as a **Turborepo monorepo with isolated web, server, and db packages**, each with independent CI/CD pipelines to avoid cross-package deployment coupling.

TECHNICAL SKILLS

Languages: Go, TypeScript, Python, C/C++, SQL (PostgreSQL), JavaScript, HTML/CSS

Frameworks & Libraries: React, Next.js, Express, Node.js, Hugo, FastAPI, Prisma

Concepts: REST APIs, WebSockets, Distributed Systems, System Design, Data Structures & Algorithms, Docker