

JAVALI AJAYAKUMAR

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PROFESSIONAL SUMMARY

Diploma student in AI & Machine Learning at GTTC Magadi with hands-on expertise in designing AI-powered applications, full-stack web systems, and open-source developer tooling. Author of **AfterLink**, a published npm binary protocol library achieving sub-1ms LAN latency and 100,000+ req/s throughput. Built **Attendance By Intelligence**, a production-grade smart attendance platform with WhatsApp automation. Actively participates in hackathons and open-source contribution. Seeking a challenging internship in AI/ML or software development.

TECHNICAL SKILLS

Languages

Python (Primary), SQL, HTML5, CSS3, JavaScript

AI / ML

Machine Learning, NLP, Data Analysis, Model Development, Prompt Engineering

Web & Backend

Node.js, Express.js, REST APIs, JWT, RBAC, Frontend Development, Responsive Design

Databases / Cloud

Supabase (PostgreSQL), Firebase, Google Cloud Platform, AWS, MongoDB

DevOps / Tools

Git, GitHub, Docker, Linux (CLI), PM2, pnpm, Vitest, Zod

Protocols

Binary Protocol Design, TCP/WebSocket, Pub/Sub Messaging, MessagePack Serialization

PROJECTS

AfterLink — *Custom Binary Communication Protocol* github.com/AJAYMYTH/AfterLink • npmjs.com/package/afterlink • afterlink-docs.vercel.app

- › Engineered a custom application-layer binary protocol with a compact 10-byte frame header, achieving **sub-1ms LAN latency** and **100,000+ requests/second** throughput on a single core.
- › Published a 3-package npm ecosystem (@afterlink/core, server, client) featuring persistent TCP connections, built-in pub/sub, multiplexing, auto-reconnect, Zod schema validation, and JWT authentication.
- › Built full deployment support across Docker, Railway, Render, Fly.io, AWS EC2, and Kubernetes with backend-agnostic architecture (Supabase, Firebase, DynamoDB, MongoDB, PostgreSQL).

Attendance By Intelligence (ABI) — *Smart Attendance System*

- › Developed a production-ready full-stack attendance platform with automated WhatsApp integration that dispatches real-time absentee notifications to staff groups, reducing manual reporting effort.
- › Implemented secure multi-role JWT authentication (Admin/Staff), RBAC, Chart.js analytics dashboard, Excel bulk import/export, and Supabase PostgreSQL backend.

trovvin.do — *Media Downloader Web Application*

- › Built and deployed a full-stack YouTube video/audio downloader supporting multiple formats (MP4, WebM, MKV, MP3, WAV) and quality levels from 144p to 4K with real-time download progress streaming.
- › Designed a privacy-first architecture with no server-side data storage; integrated RESTful API (6 endpoints), MySQL analytics layer, LocalStorage history, and responsive mobile-first UI.

EDUCATION

Diploma in Artificial Intelligence and Machine Learning (DAIML) — Government Tool Room and Training Centre 2023 – Present
(GTTC), Magadi, Karnataka

ACHIEVEMENTS & OPEN SOURCE

- ▶ Published and maintained AfterLink as open-source npm library (MIT License) with full documentation and security policy
- ▶ Maintained 19+ public GitHub repositories across AI, web applications, tooling, and protocol design
- ▶ Active Hack2Skill participant in AI/ML and software development hackathons
- ▶ Registered ORCID researcher identity (0009-0000-4829-6726)