Arjit Verma

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EDUCATION

Indian Institute of Information Technology, Dharwad Dharwad, Karnataka
Bachelor of Technology in Computer Science Engineering *2022 – 2026*
  − CGPA – 7.71/10

EXPERIENCE

IIIT Dharwad (College Website) Dharwad, Karnataka
Full-Stack Developer *Jan 2024 – Mar 2024*
  − Implemented pixel-perfect, responsive UI components in Next.js from Figma designs, optimized for performance and SEO, and connected them with server-side API endpoints.
  − Developed secure and modular Express.js REST APIs backed by MongoDB, handling schema design, data validation, error handling, and efficient content retrieval.

On-Device LLM Translation Research Dharwad, Karnataka
Research Assistant (under Dr. Animesh Chaturvedi) *Jan 2025 – Apr 2025*
  − Investigated the feasibility of deploying lightweight LLMs (e.g., Gemma, Llama) for real-time, on-device machine translation on Android.
  − Benchmarked inference frameworks (MLC.ai, ONNX) using the IIT Bombay English-Hindi corpus, identifying memory constraints and tooling instability as primary deployment barriers.

PROJECTS

Video Streaming Platform – StreamItBroski *(Node.js, Express,Reactjs, FFmpeg, MongoDB, GCP)* 2023 – 2024
  − Engineered a full-stack video streaming platform with **adaptive HLS processing**, ensuring reliable low-latency delivery.
  − Deployed scalable content storage pipeline on Google Cloud Storage.
  − Achieved smooth playback with live-streaming latency as low as **6–7 seconds**.

HTTP Caching Reverse Proxy – GoCache *(Go, Docker, Prometheus, Grafana)* 2024 – 2025
  − Engineered a production-grade HTTP reverse proxy with memory-bounded LRU caching and graceful shutdown handling
  − Implemented thread-safe caching using container/list and sync.Mutex to handle high concurrent loads
  − Integrated observability stack with Prometheus + Grafana for real-time performance monitoring

Krishi Sevak – Krishi-Sevak *(Python, Raspberry pi,LLM, OpenCV,Html,Css)* 2024
  − Developed an Site to fetch NDVI images and real-time sensor data from the Krishi Sevak system
  − Designed an interactive dashboard using Html Css to display AI-driven crop health recommendations
  − Trained LLM model on given data set to get output using NDVI images

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C/Cpp, Go, SQL, HTML/CSS
Frameworks & Backend: Node.js, Express.js, Next.js, React.js, Socket.IO, Tailwind
Databases: MongoDB, PostgreSQL, MySQL, Supabase
Cloud: Google Cloud Platform (GCP), Supabase, MongoDB Atlas
Developer Tools: Linux, REST APIs, Git, GitHub, VS Code

CERTIFICATIONS

Google Cloud Skills Boost 2023
Google Cloud Platform *Online*
  − Completed 10+ skill badges, demonstrating hands-on experience in GenAI, ML APIs, Compute Engine, VPCs, and IAM.
  − Applied practical knowledge of load balancing, scalable storage, and distributed cloud architectures.