Aryan Keshav Sherigar

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Education

Indian Institute of Technology (Indian School of Mines), Dhanbad **May 2026**
Bachelor of Technology *Dhanbad, Jharkhand*

Experience

Outlier AI **January 2025 – Present**
Coding & Math Annotator *Remote*

- Evaluated and corrected LLM-generated solutions for algorithmic and mathematical problems, ensuring correctness and optimal code implementations.
- Identified failure patterns (edge cases, flawed logic, inefficiencies) through code analysis and debugging.
- Designed adversarial test cases and coding scenarios to stress-test model performance.
- Improved dataset quality for LLM training and fine-tuning by ensuring high-quality, executable code outputs.

Projects

News Story Arc Tracker | *React, FastAPI, AWS Bedrock, LangChain, Pinecone, WebSockets*

- Built a narrative intelligence platform to extract timelines, entities, and sentiment from real-world events using AWS Bedrock LLMs.
- Engineered a scalable RAG pipeline with LangChain, Titan Embeddings, and Pinecone/OpenSearch for semantic retrieval.
- Developed an interactive React frontend with dynamic relationship graphs and data visualizations.
- Implemented real-time voice chat over WebSockets with streaming transcription and TTS.
- Designed a FastAPI backend with streaming endpoints, model fallbacks, and reliability-focused safeguards.

Chronos: AI Story Engine | *React, TypeScript, Google Gemini 3 Flash, Vite, Tailwind CSS*

- Designed a dual-phase streaming pipeline with Gemini 3 Flash to emit narrative text and structured JSON state in one request.
- Built a deterministic state machine to transform unstructured LLM output into tracked game variables and story state.
- Implemented a lightweight RAG-style Story Card system to inject relevant lore and memory with minimal context overhead.
- Developed a Director Mode enabling real-time human-in-the-loop control over tension parameters and plot flow.

Technical Skills

Languages: Python, C++, TypeScript/JavaScript
Core CS: Data Structures & Algorithms, OOP, Multithreading, OS Basics
Backend & Web: Node.js, Express.js, Next.js, FastAPI, SQL, REST APIs
GenAI: Prompt Engineering, RAG, LLM APIs (Gemini/OpenAI-compatible), Embeddings, Semantic Search, HuggingFace
Tools: LangChain, LangGraph, ChromaDB, Git, Linux, Postman,

Achievements / Extracurricular

- Solved 200+ Data Structures & Algorithms problems across arrays, trees, graphs, dynamic programming, and greedy techniques.
- Summer Internship Offer as Technology Analyst at Barclays UK (Northampton).
- 2nd Runner-up (Top 3/200+ teams) at BlockBash Hackathon hosted by CrewSphere, Official ICP Hub of India.
- Finalist in HackFest '22 organized by IIT(ISM) Dhanbad.
- Selected participant among 100+ developers in Web3Dapps Hackathon by Major Hacking League.
- Mentored 20+ students in blockchain development during Cyberlabs Winter of Code, achieving a 95% project completion rate and fostering the next generation of blockchain engineers.

Leadership

- **Club Member:** Cyberlabs (Blockchain Division), IIT Dhanbad — collaborated on technical discussions, peer learning, and project development initiatives.
- **Event Volunteer:** Srijan'23 Socio-Cultural Festival, IIT Dhanbad — supported large-scale event operations and coordinated with cross-functional teams.
- **Lions Club Member:** Leo Club, Airoli Wing — participated in community service initiatives and youth leadership programs.