

ACHYUTH P RAO

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EXPERIENCE

Pluralsight | Full Stack Intern [React.js | WebRTC | Socket.io | RTMP-HLS | PostgreSQL | Node.js]

(Jan 2025 – Present)

- Built a **low-latency** interactive live streaming **MVP** from scratch using **WebRTC** and **Mediasoup**, achieving sub-300ms latency; integrated RTMP-HLS for scalable playback, supporting 1000+ concurrent viewers. Pioneered full-stack with **React.js**, **Node.js**, and PostgreSQL.
- Wrote robust **RESTful APIs** using **Express.js** to support stream scheduling and real-time stream status updates, reducing API response time to under 150ms and enabling stream management across Streamer and Viewer UIs
- Implemented features like **Live chat**, stream **tagging**, stream-to-course mapping, which improved stream discoverability and educational context delivery by 40%.

Nokia | Project Intern

(Feb 2024 – July 2024)



- Translated **natural language into service intents** using **Llama3**, increasing the processing efficiency of the service orchestration system.


Wise Work | Intern

(Dec 2023 – June 2024)

- Contributed to WiseEMS, an AI-powered Employee Management System, optimizing employee data workflows and boosting administrative efficiency by 30% through automation and intelligent insights.


PROJECTS

HACKMAN V7 | College Hackathon Website [React.js | PostgreSQL | ExpressJS | Tailwind]  

- Led a **team** of 10 in designing the **Hackman V7 hackathon** website using **React.js**, **PostgreSQL**, and **Express.js**, ensuring smooth **user registration** for **400+ participants** and efficient event management.
- Successfully synthesized diverse ideas and skills, enhancing overall project performance for other projects as well. 

Intent-Based LLM for Service Orchestration | GenAI-powered NLP system for Nokia [Natural Language Processing]

- Utilizing LLMs to translate natural language into intents, aligned with TMF921 Intent Management API standards.
- Engineered prompts for the Llama3 model to accurately generate **TMF921** Payload in JSON-LD format, ensuring precise and efficient data representation.
- Processed 500+ service intents using Llama3, mapping user queries into structured JSON-LD payloads.

Bitez | Food Delivery Web Application [React.js | MongoDB | ExpressJS] 

- Developed a full-stack food delivery web application from scratch with **React.js**, **Node.js** and **MongoDB**, utilizing frameworks like **Bootstrap**, **Cloudinary** and **Axios** to optimize the system's performance, also reducing app loading time by 50%.
- Implemented features like Cart Management, **REST APIs**, **Database** Integration and a fully responsive **UI**.

TECHNICAL SKILLS

Languages: C/C++, JavaScript, TypeScript, SQL

Frontend: React.js, HTML/CSS, Bootstrap, Tailwind,



Backend: Node.js, Express.js, WebRTC, WebSockets

Databases: PostgreSQL, MongoDB

Developer Tools: Git, GitLab, VS Code, Postman

Core Skills: Full Stack Web Development, Data Structures and Algorithms

CERTIFICATIONS & ACHIEVEMENTS

- FFMPEG for Live Streaming – Udemy** (Feb 2025)
Learned to use FFMPEG for encoding, transcoding, and building low-latency live streaming pipelines for my intern project at Pluralsight 
- Machine Learning A-Z – Udemy** (Sep 2023)
Gained understanding of supervised and unsupervised ML algorithms using Python and real-world datasets. 
- Contributed** to the development of **3+ events** and hackathon websites for the **Genesis Student Forum**, Department of ISE at DSCE– **Tech Team Lead** – *Genesis Student Forum*

EDUCATION

Dayananda Sagar College of Engineering

B.E. in Information Science and Engineering

CGPA: 9.30

(Dec 2021 – Present)