Shruti

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Education

B.Tech in Computer Science , Maharaja Agrasen Institute of Technology
2024 – 2028 · CGPA: 9.2

Summary

Full-stack developer specializing in AI-integrated web applications, with hands-on experience building multi-agent LLM systems, context-engineering pipelines, and evaluation frameworks on the MERN stack. Shipped production-grade projects spanning debate simulation, personalized AI companions, and automated email intelligence, integrating Gemini, Groq/LLaMA, and RAG-based techniques into deployed, real-world products. Combines strong frontend/backend fundamentals with a growing specialization in GenAI system design – from prompt architecture to LLM-as-judge evaluation.

Experience

Full-Stack Developer Intern **June 2026 – August 2026**
SkillifyMe | [GitHub] [Live]

- Built a fully functional business portfolio website end-to-end, engineering the complete frontend across **5+ pages** using React (Vite) and Tailwind CSS with a fully responsive, component-driven UI.
- Designed and integrated **10+ REST API** endpoints for product management and customer inquiries, connecting frontend to a Node.js/Express/MongoDB backend with structured schema design.
- Implemented a customer inquiry system allowing users to submit queries directly from the site, triggering real-time email notifications to the admin on new submissions.
- Collaborated with a co-developer on a split frontend/backend codebase, coordinating via shared Git repository with mutual code review to avoid integration conflicts.

Skills

Languages/Frameworks: Java, JavaScript, React.js, Node.js, Express.js
AI/GenAI: Prompt Engineering, RAG, Embeddings & Semantic Search, Multi-Agent Systems, LLM-as-Judge Evaluation, Gemini API, Groq/LLaMA
Backend/Data: MongoDB, REST APIs, JWT Authentication
Tools: Git/GitHub, Vercel, Render, Tailwind CSS, GSAP

Projects

The Courtroom | ***React, Node.js, Express, MongoDB, JWT, Recharts*** **[GitHub] [Live]**
AI Debate Engine with Multi-LLM Agents

- Architected a multi-agent debate system with **4 distinct LLM agents** (Skeptic, Optimist, Data, Verdict) that argue and synthesize a verdict on user-submitted topics.
- Built full-stack persistence with MongoDB and JWT-based authentication, and visualized debate outcomes across **6+ metrics** with Recharts dashboards.
- Deployed independently on Render (backend) and Vercel (frontend) as a live, publicly usable product.

PersonaAI | ***Node.js, Groq (LLaMA 3.3 70B)*** **[GitHub]**
Multi-Persona AI Companion Engine

- Engineered a context-construction pipeline combining long-term memory, user profiling, conversation summarization, and persona layers before every LLM call, instead of forwarding raw messages.
- Built **6 modular AI personas** (Boyfriend, Best Friend, StudyMate, Teacher, Therapist, Motivator) with independent system instructions and dynamic runtime switching.
- Reduced redundant token usage via automatic user profiling and relevant-memory retrieval instead of sending full conversation history per request.

Hiver AI Challenge | ***Node.js, Gemini API, Groq*** **[GitHub]**
Automated Email Reply Suggestion Pipeline

- Built a Node.js pipeline generating email reply suggestions using Gemini as the primary model with Groq as an automatic fallback.
- Designed an LLM-as-judge scoring system achieving **87.5%** agreement with human review across the validation set.

Extra-Curricular & Leadership

Web Development Senior Executive, International Organisation of Software Developers (IOSD) – MAIT (Jan 2025 – Present)
Outreach Head Executive, Alumni Cell
Open-source contributor – merged PR to *first-contributions* (Hausa README fix)