

Aarthi Kumari

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About Me

Computer Science undergraduate (AI & ML) with a strong foundation in data structures, algorithms, and object-oriented design. Experience building distributed, concurrent backend systems such as job orchestration, retry handling, and multi-service pipelines. Comfortable translating ambiguous product requirements into scalable, working software.

Experience

- AI Software Engineer Intern**, Linea Feb 2026 – May 2026
- Built core features for Linea, an open-source AI agent platform, spanning the orchestration layer, frontend application, and internal proxy services handling multi-service request routing.
 - Designed and implemented agent execution pipelines that coordinate multiple asynchronous steps, addressing ambiguous, broadly-defined product requirements with limited existing specs.
 - Developed frontend modules enabling users to configure, manage, and interact with distributed AI agent workflows end-to-end.

Projects

- Nodebase – AI Workflow Automation SaaS** [GitHub](#): 
- Designed a fault-tolerant background job execution system using Inngest, supporting concurrent workflow runs with automatic retry handling on failure.
 - Built a drag-and-drop workflow engine integrating 3 AI providers (OpenAI, Claude, Gemini) with webhook-triggered, multi-step execution pipelines.
 - Enforced data integrity across the distributed job pipeline with type-safe Prisma schema validation, shipped alongside billing and auth systems.
 - Tech:** Next.js, TypeScript, Prisma, PostgreSQL, Inngest, OpenAI API
- TalkTrack – Real-Time AI Meeting Assistant (Ongoing)** [GitHub](#): 
- Built a real-time distributed meeting platform with LiveKit WebRTC, Deepgram STT, and a tiered AI model system (Groq Llama 3.3 70B + Gemini 2.5 Flash) to minimize transcript-to-response latency.
 - Designed server-side tool-calling and Socket.IO chat infrastructure with presence tracking to synchronize state across multiple concurrent clients.
 - Tech:** Next.js, Express.js, Socket.IO, LiveKit, Clerk, Groq, Gemini, Deepgram, PostgreSQL, Prisma

Skills & Technologies

Languages: Java, Python, TypeScript, JavaScript, SQL

Frontend: React, Next.js, HTML, CSS

Backend: Express.js, Flask, Spring Boot, REST APIs, Prisma ORM

Mobile: React Native, Expo, GPS/Location APIs, WebSockets

Databases: SQL Server, PostgreSQL, MySQL, MongoDB, SQLite

AI / ML: HuggingFace Transformers, NLP, Speech Recognition (Whisper)

Tools & Concepts: Data Structures & Algorithms, Complexity Analysis, OOP, Distributed Systems, Operating Systems, REST API Design, Git, GitHub, Agile

Education

CMR Engineering College, B.Tech in CSE (AI & ML) - CGPA: 8.7/10.0	2023 – 2027
Narayana Junior College, Intermediate (MPC) - 98%	2021 – 2023
Little Star High School, SSC - CGPA: 10/10.0	2020

Certifications & Achievements

- Salesforce Certified Agent Specialist** - Demonstrated expertise in Salesforce platform capabilities, agent workflows, and AI-powered customer service automation.
- Google Cloud Career Launchpad – Generative AI Leader Track** - Completed courses and hands-on labs covering generative AI concepts and Google Cloud AI services.
- IBM SkillBuild - Generative AI Micro Internship** - completed hands-on modules on prompt engineering, LLMs, and generative AI applications.
- Data Structures & Algorithms (Java)** - Solved 250+ Data Structures & Algorithms problems in Java on LeetCode.