

KISHORE YOGESWARAN

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Education

Lakehead University, Thunder Bay | MS in Computer Science - GPA: 4.0/4.0

2023 – 2024

Courses: Web Development, NLP, Mobile Programming, Pattern Recognition

Thunder Bay, Ontario

Sastra Deemed to be University | B.Tech Computer Science - CGPA: 8.48

2019 - 2023

Courses: Full-Stack Web Development, Java, Data Structures & Algorithms, Software Engineering

Thanjavur, Tamil Nadu

Professional Experience

AI RoundTable Inc. | AI Developer (Freelance Contract) – LLMs, RAG, and Automation

July 2025 – Present

- Developed agentic AI workflows using **n8n**, **LangChain**, and **OpenAI/Claude**, integrating vector search via **Chroma** and **Weaviate** to power RAG pipelines and autonomous tool-using agents.
- Built scalable backends using **FastAPI**, **Pydantic**, and **PostgreSQL**, exposing secure RESTful APIs to serve **LLM-based agents** with capabilities like **tool use**, **memory retrieval**, **context chaining**, and real-time data processing across distributed services.
- Automated internal processes using **n8n** and low-code orchestration, integrating services like **Google Sheets**, **Discord**, and custom **REST APIs**, with support for **webhook triggers**, **error handling**, **retries**, and **resilience patterns**.

Accenture | Full-Stack Developer – AI & Cloud Geospatial Solutions

January 2023 – June 2023

- Automated the ingestion of 48,000+ satellite data points using **Google Earth Engine (GEE)** and **AWS Lambda**, with outputs stored in **Amazon S3** to support downstream **machine learning** workflows, reducing manual processing time by 70%.
- Deployed production-ready **REST APIs** using **Node.js**, **Express**, and **AWS Glue**, enabling real-time access to processed geospatial datasets for AI-driven analytics and visualization tools.
- Delivered a full-stack **MERN** application to visualize satellite-derived geospatial insights, enhancing accessibility and boosting data driven decision making by 35%.

Trinal Web Pvt. Ltd. | Full-stack Developer - MERN Stack

August 2022 - January 2023

- Redesigned the Web 3.0 platform using **Next.js**, improving performance by **30%** through route based code splitting, lazy loading, and image optimization; boosted user engagement by **20%** based on analytics insights.
- Led a team of 5 developers** to build a modular front-end with reusable components, leveraging **React Context**, **Redux Toolkit**, and **React Query** for efficient state and API management; reduced latency by **35%**.
- Developed secure **REST APIs** using **Node.js**, **Express.js**, and **MongoDB**, implementing **JWT authentication**, query indexing, and **Redis caching** to improve response times by at least **40%**.

Technical Projects

Nestle Assistant Chatbot | AI Chatbot with Hybrid RAG, Graph Reasoning, and Geolocation-based Product Search

- Built a production grade chatbot using **Next.js**, **Azure OpenAI**, and **Azure Cognitive Search** with **Hybrid RAG** (vector + keyword), enabling real-time semantic search across 5800+ scraped Nestlé content chunks.
- Implemented entity-aware reasoning using **Neo4j** and LLM-based extraction, improving answer accuracy by **40%**. Developed a scalable ingestion pipeline with **Playwright**, **Cheerio**, and embedded 2500+ structured entities into Azure Search.
- Integrated a geolocation-based store locator and **Amazon affiliate links**, increasing contextual product relevance by **35%**. Designed an interactive UI with **ShadCN**, **Tailwind CSS**, and **Framer Motion**, improving user experience.

WIST | AI Enhanced Goal Planning System with Context-Aware Suggestions and Media-Rich Tracking

- Built a full-stack planning app using **Next.js 14**, **Firebase Auth**, **Firestore**, and **Firebase Storage**, allowing users to manage goals with structured metadata, rich reflections, and secure authentication; onboarded 100+ test users.
- Integrated a **Generative AI planning assistant** via **Azure OpenAI (o3-mini)**, generating contextual suggestions with usage limits and follow-up prompts; improved planning task completion by **45%** in testing.
- Enhanced UX with **Tiptap Editor**, memory grids, and **drag-and-drop reordering** using **dnd-kit** and **Framer Motion**. Created an accessible UI with **Tailwind CSS** and **ShadCN**, increasing average session duration by **30%** based on Firebase Analytics.

Vaultic | Cloud Storage and File Sharing Platform

- Engineered a secure, full-stack platform with **Next.js 15**, **React 19**, and **TypeScript** for uploading, managing, and sharing files. Integrated **Appwrite** for storage, authentication, and database services; handled 1,000+ test uploads.
- Implemented **OTP-based sign-in** with Appwrite Auth and designed a real-time dashboard using **React Server Actions**, offering instant insights into file usage, categorization, and upload history.
- Optimized file handling with **Appwrite Cloud Functions**, enabling real-time updates, global search, and file sorting. Automated deployment on **Vercel** with **CI/CD pipelines**, cutting release time by **40%**.

Skills & Achievements

Languages & Tools: TypeScript, JavaScript, Python, Java, C++, SQL, Git, GitHub

Frameworks & Libraries: React, Next.js, Redux Toolkit, Tailwind CSS, Node.js, Express, Framer Motion, Tiptap, ShadCN, dnd-kit

Cloud & DevOps: Azure (OpenAI, Cognitive Search), AWS (S3, EC2, Lambda), Firebase, Vercel, Netlify, CI/CD

Databases & Auth: MongoDB, PostgreSQL, MySQL, Redis, Neo4j, Appwrite, Firebase Auth, JWT, OTP-based Auth

AI & RAG Stack: Azure OpenAI, Hybrid RAG, Embeddings, LLM-based Entity Extraction, Prompt Engineering, Vector Search, Retrieval Pipelines, Playwright Scraping

Achievements: 2nd Runner-Up – Google DevFest Hackathon

Strengths: Scalable Systems, Performance Tuning, UI/UX Design, Team Collaboration